THE CHEMIST AND DRUGGIST

TELEPHONE 1852 NUMBER

TELEGRAPHIC ADDRESS CHEMICUS LONDON

HEAD OFFICE, LONDON: CANNON ST. E.C.

Branch Offices: MELBOURNE and SYDNEY.

ESTABLISHED IN

ENGLAND ... 1859. AUSTRALASIA ... 1885.

Registered as a Newspaper. [*Registered for Foreign Transmission.*

Prix de l'abonnement:—The Chemist and Druggist une fois par semaine, et l'agenda du Chemist and Druggist une fois par an, 12.50 francs par an, franco.

Abonnementspreis:—The Chemist and Druggist einmal wöchentlich, und Notizkalender des Chemist and Druggist einmal im Jahre, 10 Mark jährlich, frei in's Haus geliefert

Precio de suscricion:—The Chemist and Druggist, una vez por semana, y el Agenda del Chemist and Druggist una vez al año, 12.50 pesetas anuales franco.

No. 787. Vol. XLVI. MAY 18, 1895.

Subscription, 10s. per Annum, including Diary, Post Free the World over. Single Copies, 4d. each, Post Free.

EVANS, SONS & CO.

LIVERPOOL.

Special Attention is requested to Advertisements in Issue next week, May 25th.

"CARNABYN"

(REGISTERED),

A NOURISHING MEAT AND MALT WINE.

Strongly recommended by the Medical Faculty in all cases of weakened constitution, and particularly useful in cases of ladies whilst nursing, and delicate children, or in ailments where a stimulating—digestive—tonic—nutrient is indicated.

Dose—A quarter to Two Ounces twice daily.

In Bottles, 2s. 6d., 5s., and 7s. 6d.

HOOPER & COMPANY,

CHEMISTS, ETC.

55 Grosvenor Street, and 26 Davies Street, W.; also at 7 Pall Mall East, London.

LABORATORY—MITCHAM, SURREY.

ALSO, AS SUPPLIED TO H.M. THE QUEEN AND THE ÉLITE OF THE ARISTOCRACY,

HOOPER'S SPARKLING SELTZER

2/6 per dozen. Six dozen Carriage free.

PURE SODA, PURE POTASH, LEMONADE, AND AROMATIC GINGER ALE.

SPECIAL TERMS FOR QUANTITY.

Exchange Column, p. 12. Advertisers' and Buyers' Reference List and Index to Advertisements, pp. 27–29.

THE INDEX REFERENCES APPLY TO FOLIOS AT FOOT OF PAGES.

MAY & BAKER, LTD.

GARDEN WHARF,

BATTERSEA, LONDON, S.W.

Telegraphic Address—"BISMUTH LONDON."
A B C Code Used.

ESTABLISHED
OVER 60 YEARS.

Telephone No. 9003.

PURE MERCURIAL SALTS

For Medicinal use; also for Anti-fouling, Kyanising, and all other Purposes.

BISMUTH SALTS AND PREPARATIONS.

CAMPHOR BELLS,

Flowers and Finest REFINED TRANSPARENT Tablets.

AMYL ACETATE. CHLOROFORM.
PEROXIDE OF HYDROGEN
(10, 12, and 20 Vols.).
PURE ACIDS, NITRIC, HYDROCHLORIC,
&c., &c.
TEREBENE, PURE.
RECTIFIED AND METHYLATED ETHERS
And all Compounds.

FERRI ET AMMON. CITRAS, B.P.
FERRI ET QUIN. CITRAS, B.P.
SPTS. ETHER. NIT., B.P. & S.G. ·850.
SPTS. AMMON. AROMAT., B.P.
MAGNES. SULPH. EXSICC.
MAGNES. CALC. POND.
And all Pharmaceutical and General Chemicals.

Goods of our Manufacture can be obtained through the Leading Wholesale Houses.

Blondeau New Choice Toilet Soaps.

Exquisitely Perfumed

WITH THE

Choicest Scents

SUPPLIED IN BEAUTIFUL ARTISTIC BOXES EACH CONTAINING 3 TABLETS.

—	Retail Price per box	Trade Price per doz. boxes.
Blondeau's Baby Soap	1/6	12/-
" Cucumber and Glycerine Soap	1/6	12/-
" Cold Cream Soap ..	2/-	16/-
" Lys de France Soap..	2/-	16/-
" Jequilla Soap ..	2/-	16/-
" Marequil Soap ..	2/-	16/-
" Musk Lavender Soap	2/-	16/-

—	Retail Price per box	Trade Price per doz. boxes
Blondeau's Maréchal Niel Soap	2/-	16/-
" Oriental Soap ..	2/-	16/-
" Lettuce Soap ..	2/-	16/-
" Heliotrope Soap ..	2/-	16/-
" White Rose and Cucumber Soap..	2/6	20/-
" Violet Soap.. ..	3/-	24/-
" Opoponax Soap ..	3/-	24/-

As fine as can possibly be made.
For the Hair and for the Moustache.

VINOLIA BRILLIANTINE.

For the Hair, 1/-, 2/-, 3/6.
For the Moustache, 1/-, 2/-, 3/6.
TRADE PRICES—
8/-, 16/-, 28/- per doz.

VINOLIA DENTIFRICE.

Keeps the Teeth ivory white.
RETAIL PRICES.—English, 2/6; American, 1/6.
No. 2, in metal boxes, 6d. and 1/-.
TRADE PRICES.—English, 22/10 per doz.: American, 13/9 per doz.
No. 2, in metal boxes, 4/- and 8/- per doz.

VINOLIA EAU DE COLOGNE.

DELICATE, CONCENTRATED, PURE.
1/6, 2/6, 3/6, 6/6.
TRADE PRICES—
9/6, 17/3, 27/3, 55/- doz.

VINOLIA DENTIFRICE.

VINOLIA POMADE.
Natural to the Head and Scalp.
In white opal pots, 2/-.
TRADE PRICE, 16/- per doz.

LAIT VINOLIA.
For the Complexion.
In elegant porcelain vase, 4/6.
TRADE PRICE, 41/- per doz.

All the above Prices are subject to usual discounts.

Contains the finest essential oils.
Delicate and very Lasting.

BLONDEAU et CIE., Ryland Rd., LONDON, N.W.

PRIVATE AND CONFIDENTIAL.

(ISSUED TO RETAIL CHEMISTS ONLY.)

43 RATHBONE PLACE,
LONDON, W.,
1st May, 1895.

CO-OPERATION versus "CUTTING."

Dear Sir,

The business I commenced last year in "Neigeline" for the skin, and "Taklis," a renovator for silk hats, having now obtained a sound footing with the public, I have, after careful consideration. Registered as a "Limited" Company, under the style and title of

Edward Aspinall, Limited.

The outcry of the numerous letters I have received from Retail Chemists condemning the "Cutting" now so prevalent with proprietary articles has been my chief reason for doing this, and I now propose as a remedy to practically place the products of this Company in the hands of *the Retail Chemists only*, whom *alone* I invite to become Shareholders.

Two courses only seemed open to me by which I could reach the Consumers of both my articles.

The first course, *lavish advertising*, which from my "Enamel" experience (having spent nearly £100,000 in four years) I have found to be productive of *Demand* but *fatal* to the Retailers' *profit*, as it opens the gate to such serious cutting of prices that many good Customers lose interest in selling largely-advertised articles, because their neighbours make these articles a medium or "bait" to *draw* trade to their Establishment for other goods.

The second course, and the one that commends itself to me, is to co-operate with the *Retailer* of the articles I manufacture, and offer him a *real living interest* in the business, it being to his benefit to maintain the prices and obtain the legitimate profit to which the *bonâ-fide* trader is entitled.

I have therefore made the Capital of the Company £15,000, in 15,000 shares of £1 each, and I now offer 7,000 of these Shares to Retail Chemists only, retaining the remaining 8,000 shares myself.

Every £1 Share will entitle the holder to two 2*s*. and two 3*s*. 6*d* bottles of "Neigeline" and two 1*s*. boxes of "Taklis" *on Sale or Return* at usual trade terms, thus ensuring every Shareholder having a small stock without further outlay.

It is not my intention to give any preference to wealthy applicants by allotting them a large number of shares, my desire being to obtain the *very essence of business co-operation*, by getting as many small shareholders as possible (even single shares can be purchased).

The great benefit the Shareholders will derive from this plan will be that a large body of Retailers scattered all over the kingdom, who are personally interested in the prosperity of the Company, will be pushing the products of the Company and working with the manufacturing House in London whence the advertising will be judiciously directed in the best possible media to attract the public and send them to the retail shops. A complete list of the Shareholders' names and addresses will be periodically advertised in the London and Society papers as Agents for "Neigeline" and "Taklis" if necessary whole pages of the *Daily Telegraph*, *Standard* &c., will be taken for this purpose. Local Advertising will also be done where it is deemed advisable.

From the results of the first fourteen months' trading in "Neigeline" (the sales being in March, 1895, ten times larger than in March, 1894) and the first seven months trading in "Taklis," I feel I am justified in guaranteeing, as I do, a *minimum* dividend of 10 per cent. per annum for five years; with energetic co-operation much more should be earned, and the Shares should soon be at a good premium.

It is proposed to extend the existing Export Trade to all parts of the world, thus adding to the profits of the Home trade the Export profits in which all will share alike. I may mention that our goods are already being shipped at remunerative prices to the European Continent, India, South Africa, &c.

As new inventions are occasionally being placed before me, some of which can be sold with satisfaction to the public and profit to the Retailer and the Company, it is not proposed to limit the Company's manufactures entirely to the articles now made, provided others of equal profit can be added to the business.

It is obvious that if the object for which I have formed the Company be attained and the products of the Company are placed in the hands of a large body of retail Shareholders, extravagant newspaper and hoarding advertising will be avoided, and handsome handbills, showcards, mirrors, &c., &c., setting forth the merits of the various articles offered for sale, can be supplied to their shops at a much lower cost of advertising and with equal benefit to the Company.

Anticipating the question "What about the Stores?" I reply, that if the shares now offered to the Retail Chemists only are taken up by them, the prices to the Stores and all Houses that supply the Stores will be fixed at a figure that will entirely prevent any cutting in the future.

Following the same plan as that adopted by a well-known newspaper proprietor a few years ago, I am having no Board of Directors, thinking it for the present, at any rate, useless and expensive, and preferring to save the fees for dividends. As Governing Director at £400 per annum salary I can con-

duct the business of the Company with credit to myself and profit to the Shareholders.

The following contracts have been entered into, viz.:—An Agreement dated 30th April, 1895, between Henry Edward Aspinall, the Vendor, of the one part and the Company of the other part; an Agreement dated 16th January, 1894 (embodying the sale of the business and secrets of "Neigeline"), between John O'Donoghue of the one part and Henry Edward Aspinall of the other part; an Agreement dated 26th June, 1894 (embodying the sale of the business and secrets of "Taklis"), between William Bashford of the one part and between Henry Edward Aspinall of the other part; and an Agreement dated the 8th of April, 1895, between Charles Lucius O'Brien of the one part and Henry Edward Aspinall of the other part.

The Vendor has also entered into ordinary business contracts, including the lease of the premises in Rathbone Place, London, W., and as these may technically constitute contracts within the meaning of the 38th section of the Companies Act, 1867, applicants for Shares will be deemed to have notice of them, and to have accepted the information given in this letter-prospectus, as full and sufficient notice and particulars of all such contracts as are referred to in this paragraph and to have waived all right to any further notices or particulars thereof whether under section 38 of the Companies Act, 1867, or otherwise.

Applications for Shares should be made on the form enclosed and be sent, together with 5s. per Share Deposit, direct to the Company's Bankers, The National Bank, (Limited), 13 Old Broad Street, London, E.C; in any case when no allotment is made the deposit will be returned in full, and when the number of Shares allotted is less than the number applied for the surplus deposit will be credited in reduction of the amount payable on allotment.

The List will close on the 14th May, 1895.

The Registered Offices of the Company are at 43 Rathbone Place, London, W.

The Secretary is Mr. Claude E. Turvey.

Any suggestions which you may think useful and of value to the new Company are invited by

Yours faithfully,

EDWARD ASPINALL.

NOTE.—Applications in Ireland can be addressed to, and Deposits lodged with, THE NATIONAL BANK (LIMITED), 34 College Green, Dublin, if more convenient to Subscribers.

Ten per cent. per annum dividend guaranteed for five years, and secured by £3,500 of Stock (paying 5 per cent. per annum). An application has been sent in to the Trustees, Executors, and Securities Insurance Corporation, Limited, to act as Trustees, and, if accepted, this £3,500 will be deposited with them.

EDWARD ASPINALL, LIMITED.

CAPITAL - - £15,000

In 15,000 Shares of £1 each, payable 5s. on application, 15s. on allotment.

7,000 SHARES NOW OFFERED TO RETAIL CHEMISTS ONLY.

CO-OPERATION v. "CUTTING."

43 Rathbone Place,
London, W., May 15, 1895.

DEAR SIR,—

My Letter-Prospectus, dated 1st inst., though warmly approved by many subscribers, has not met with sufficient response to warrant my going to allotment yet; and as I am inclined to think that this is attributable to a doubt of the Company's ability to pay the 10 per cent. dividend promised for five years, I have arranged to hand to the Trustees, as above, the whole amount—viz., £700 per annum for five years = £3,500—in stock that is now paying me 5 per cent. per annum.

I now "return to the charge," because I am so convinced—and my opinion is backed up by that of prominent members of the Trade—that the principle of my scheme is GOOD, and that co-operation in my manufactures to KEEP UP THE PRICES is certain to be as productive of gain to the shareholders in my Company as the CUTTING OF PRICE DOWN has been productive of gain to the original shareholders in the Army and Navy Stores, who, I understand, receive some 150 per cent. on their investment, and the value of whose £1 shares now is about £30 or more.

Some subscribers have asked me my plan for abolishing "cutting," and I have replied that, for obvious reasons, I cannot make this public until I know that I am to have the support of the Retail Trade.

Were I to offer these 7,000 shares to the public, with the same conditions as to dividend attached, they would be taken up immediately, but neither the retailers nor I would reap the benefit of my co-operation scheme, which, with the most modest sale per week per Chemist, would ensure the absolute prosperity of the Company.

I have extended the time for subscriptions to Tuesday, the 22nd inst., and now sum up my proposition as follows:—I ask each Chemist to take up one share (or more), at a cost of 20s. each, 13s. of which (at selling prices) I forthwith return in goods (on sale or return); I secure him 10 per cent. dividend for five years; and can only say, in conclusion, that if the whole of the shares are not now subscribed, I must perforce revert to the old system of heavy advertising and letting every trader look after his own interests.

Yours faithfully,

EDWARD ASPINALL.

THE SHARP BROTHERS SOAP & PERFUMERY CO., Limited.

TELEGRAPHIC ADDRESS: "SAPONIFY LONDON."

12 *and* 14 *Southampton Row, London, W.C.,*
1*st May*, 1895.

Dear Sir,

I beg to inform you that after successfully carrying on my business for 30 *years, I am now about to retire from it. I have disposed of my Goodwill, Stock, Recipes, Trade Marks, and all proprietary rights to The Sharp Brothers Soap & Perfumery Co., Ltd.*

The business is increasing so rapidly that the present factory and warehouse are altogether inadequate, and the Company will therefore transfer it to much larger premises at 18 *and* 19 *Red Lion Square, Holborn, where the facilities they will possess will enable them, while maintaining the high quality and reputation of my products, to largely augment the output and to execute all orders with the utmost despatch.*

In thanking you for the support which you have given me for so long a period, I have the greatest confidence in asking you to extend the same to my successors, and I have pleasure in referring you to their announcement below.

I am, Dear Sir, Yours faithfully,

JOHN SHARP

(*Sole surviving partner of Sharp Bros.*).

P.S. The Company will collect all accounts owing to the old firm.

---

12 *and* 14 *Southampton Row, London, W.C.,*
1*st May*, 1895.

Dear Sir,

We beg to inform you that we have purchased the old-established business of Messrs. Sharp Brothers, Wholesale Perfumers, Refined Soap Makers, and Dealers in Druggists' and Perfumers' Sundries, 12 *and* 14 *Southampton Row, W.C.*

We intend to largely extend the scope of the old firm, and especially to develop its Soap Making and Perfume Manufacturing branches. For this purpose we have secured much larger and equally central premises at 18 *and* 19 *Red Lion Square, Holborn, where we are erecting extensive new plant and steam machinery of the latest type, including complete Milling Plant. We shall remove to these premises on July* 1*st next.*

Our special object will be to maintain the high quality of our goods; and as we shall be in a position to manufacture at the lowest cost, our prices will be found to be extremely low.

Hoping to receive a continuance and an increase of the support which you have given to the old firm in the past,

We are, Dear Sir, Yours faithfully,

THE SHARP BROS. SOAP & PERFUMERY CO., LTD.

THE SHARP BROTHERS SOAP & PERFUMERY CO., Limited,

18 & 19 RED LION SQUARE, HIGH HOLBORN, LONDON, W.C.

Telegraphic Address—"SAPONIFY LONDON."

MAKERS TO THE QUEEN.

Temporary Address until July 1 next

12 & 14 SOUTHAMPTON ROW, HIGH HOLBORN, W.C.

THIS is an age of Specialists. Since 1796 we have been Specialists in Toilet Soaps and Perfumery, and as Specialists we have originated and produced, and will go on originating and producing, goods of the highest class. We claim for our productions that they have the sterling good qualities of a century ago combined with the latest results that modern science has evolved. The following specialities have stood the test of time, or, in the case of those more recently introduced, the ineffectual competition of weak imitations:—

BENTLEY'S MUSK BROWN WINDSOR.

This famous soap is known all over the world. It is used by Her Majesty the Queen, while its low price places it within the reach of the humblest of her subjects.

In boxes containing 6 small square tablets (6 to lb.)	12/- per doz. boxes
" " 3 " " (3 to lb.)	12/- " "
" " 12 oval tablets (4 to lb)	36/- " "
" " 12 " " "Castle" Brand...	30/- " "

SHARP'S WHITE ROSE AND CUCUMBER SOAP.

The original and only genuine.

Trebly Milled and Superfatted.

Matchless Perfume.

Tablets 4 to the lb.

3 in box ... 9/- doz boxes.

12 in box ... 30/- doz. boxes.

Subject to usual discounts.

SHARP'S WHITE ROSE AND CUCUMBER SOAP.

The original and only genuine.

Trebly Milled and Superfatted.

Matchless Perfume.

Tablets 4 to the lb.

3 in box, 9/ doz. boxes.

12 in box, 30/ doz. boxes.

3 Tablets to the lb., 42/- doz. boxes.

Subject to usual discounts.

This handsome show-card, printed in brilliant colours, sent with 5 gross 4 to lb., or equivalent quantity other sizes.

MAYFAIR, milled and superfatted, 3 tablets in box	10/- per doz. boxes
" " " 12 "	33/- " "
MUSK LAVENDER, a new and delightful soap, milled and superfatted, 3 tablets in box	12/- " "
" " " " " 12 "	42/- " "

Over 100 varieties of Refined Toilet Soaps, in all sizes and shapes of tablets, and of every character of perfume and style of packing. Prices subject to usual trade and cash discounts. Special discounts for wholesale quantities and for export. Lowest prices in the trade for **SACHETS** and **BRILLIANTINES** (clear and cloudy). **GLYSELINE**, an **POMADE** (registered). **SMELLING SALTS** of all kinds. **EAU DE COLOGNE** and **EAU DE ROSE** in "3*d*. samples," octagonals, long greens, &c. **TOILET SUNDRIES** of all kinds.

NITON FRÈRES' GRASSE PERFUMES.

The Finest Perfumes Imported.

Bottled and Sealed in Grasse, ¼, ½, and 1 lb. bottles, 9/- per lb. net. Also in 5 and 11 lb. tins at 8/6 per lb. net.
Any kind of perfume.

THE SHARP BROS. SOAP & PERFUMERY CO., LIMITED,

18 & 19 RED LION SQUARE, HIGH HOLBORN, LONDON, W.C.
Temporarily at old Address: 12 & 14 SOUTHAMPTON ROW, LONDON, W.C.

ALBERT M. TODD'S

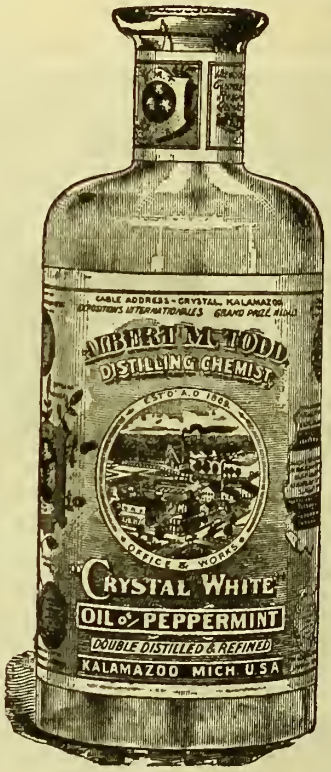
Crystal White Oil

PEPPERMINT, &c.

Five Highest Awards—Medals and Diplomas—World's Columbian Exposition, 1893.

CRYSTAL WHITE,
DOUBLE DISTILLED,
and
REFINED

PEPPERMINT,
SPEARMINT,
WORMWOOD,
TANSY, &c.



These ESSENTIAL OILS are GUARANTEED ABSOLUTELY PURE, and are UNEQUALLED in SOLUBILITY, FLAVOUR, WHITENESS, and GENERAL EXCELLENCE.

To secure the most complete introduction possible, the prices are placed much below their true value, bringing the *highest quality produced* within the reach of all.

WIDENMANN, BROICHER & Coy.

GENERAL AGENTS FOR GREAT BRITAIN,

33 Lime Street, LONDON, E.C.

Telegraphic Address—"WIDENMANN LONDON."

HEAD OFFICE AND WORKS:—KALAMAZOO, MICHIGAN, U.S.A.

The most extensive Peppermint Plantations and Works in the World.

ESTABLISHED A.D. 1869.

WARRICK

MAKERS of FLEXIBLE CAPSULES.

Best Quality Envelopes. Best Quality Ingredients.

18 OLD SWAN LANE, LONDON, E.C.

BROTHERS.

WHITE AND SOUND TEETH.

JEWSBURY & BROWN'S

ORIENTAL TOOTH PASTE.

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN, Chemists, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

JEWSBURY & BROWN,

MANCHESTER,

Are now advertising

WHITE HELIOTROPE OIL.

A HIGH-CLASS DRESSING AND STIMULANT FOR THE HAIR.

IT WILL NOT DYE.

2/- PER BOTTLE.

AGENTS.—F. Newbery & Sons, W. Edwards & Son, Barclay & Sons (Limited), J. Sanger & Son, and all Patent Medicine Houses.

SUPPORT HOME INDUSTRIES.

A.D. 1777.

BUY KENT'S BRUSHES.

See pp. 209-212, Summer Issue; also Diary, 1895. pp. 445-448.

"PRICE'S GLYCERINE"

(*Originally introduced in 1855*).

Guaranteed free from ARSENIC and all other impurities.

WHOLESALE FROM

PRICE'S PATENT CANDLE CO., LIMITED,

London, Liverpool, and Manchester.

ROBARE'S AUREOLINE.

Reduction in Price to the Trade from the 1st of April:—

5/6 size ... ... 32/- per dozen.
10/6 „ ... ... 64/- „ „

To be obtained Wholesale from R. HOVENDEN & SONS, & from all the principal Patent Medicine Warehouses in London

CAUTION.

A. S. LLOYD'S EUXESIS,

FOR

SHAVING WITHOUT SOAP, WATER, OR BRUSH.

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground.

31, 32 & 33 Berners St., W., and 91, 93 & 95 City Road, E.C., LONDON

PERFECTLY PURE. WRITE FOR OUR PRICES BEFORE ORDERING.

S 0/56 V 0/60 R

TINCTURE SPIRIT

60 O.P. AT LOWEST PRICES. 56 O.P.

PURE ORANGE WINE.

S 0/61 V 0/64 M

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per doz 2/- Per doz.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

JAMES BURROUGH S.V.R. 65 O.P. 60 O.P.

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS.

10

SOZIO AND ANDRIOLI,

ESTABLISHED A.D. 1757.
GRASSE (FRANCE)

FRENCH ESSENTIAL OILS:

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme, Rosemary, Spike, Santal, &c.

NEW CROP.

Oil of Neroly, Rose Water, and Orange Flower Water.

SAMPLES AND QUOTATIONS ON APPLICATION.

FRENCH PERFUMES

OUR WELL KNOWN AND VERY SUPERIOR COMPOSITIONS
STOCK KEPT IN LONDON.
Sole Agent. MR FREDK BOEHM 4. CULLUM ST LONDON. E.C

A. S. LLOYD'S EUXESIS

FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

CAUTION.

The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in *BLACK INK*, and the signature of his Widow, AIMÉE LLOYD, in *RED INK*. Refuse all others.

Manufacturer: **AIMEE LLOYD** (WIDOW OF A. S. LLOYD, formerly of 27 GLASSHOUSE STREET)
3 SPUR STREET, LEICESTER SQUARE, LONDON.

N.B.—When ordering from Wholesale Houses, write "LLOYD'S EUXESIS (WIDOW'S)."

THE WANT OF THE DAY!

NO MORE SOFT LINEN WHEN STARCHED.

Used In the Royal Laundries.

Once Tried, Always Wanted.

Should be used in Every House.

Makes Old Linen like New.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.

CRITCHLEY'S STARCH GLOSS

Registered No. 40376.

From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. SIR,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried. Yours truly,
To Mr. CRITCHLEY. E. ELDER.

Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each

PREPARED ONLY BY
T. CRITCHLEY, CHEMIST AND WHOLESALE DRUGGIST, **BLACKBURN.**
LONDON DEPOT—107 WHITECROSS STREET, E.C.

EXCHANGE COLUMN.

FOR DISPOSAL.

Dental.

Dental Company's 2-flask vulcaniser, excellent condition, 30s.; foot-bellows for blowpipe, 6s. "Chemist," 2 Saunders Street, Southport.

Literature.

Chemist and Druggist, 1887 to 1891, and July-December, 1893; 11 volumes, 10s. 6d. Gyles, Chemist, Folkestone.

Formulæ.

Recipes guaranteed genuine; abscess, &c., cure, never fails; seaside cream, May-bloom bouquet. "Truth," 159 Strand Road, Bootle. Advice given in perfume manufactnre.

Reliable recipes, warranted practical; white oils, perfect emulsion; tootbache cure, instant action; oatmeal lotion, seaside requisite; blood-cleanser, safe and pleasant; occasional pills for ladies, reliable; glycerine cream, elegant lotion; herbal extract, rich flavour; niogerine, patent waterproof blacking; 1s. 1d. each, 3 for 2s. 6d., free; hair-curling fluid, special recipe, 2s. 6d., free; send for latest list. Tom Brooks, Chemist, Hornsey, London, N.

Proprietary Articles.

Wanted, offers for eighteen or twenty bottles Swift's Specific, 4s. 6d. size, in good saleable condition. H. Bell, 47 Crown Street, Halifax.

Three 5s., twelve 3s., thirty-three 1s. 6d. Dobson's black-leg drinks; good condition; price 30s. Wright, Hebden Bridge.

Special.—Sulphur tablets; new tablets; samples free 2 stamps; 2 cwt., 35s. cwt.; 1 cwt, 37s.; ½ cwt., 39s.; under 6d. lb.; carriage paid; cash with order. 718, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Half marked prices.—1s. 1½d. size:—1 each Parr's, Wright's, Brandreth's, Kernick's, Holdroyd's, Owbridge's, 2 each Frampton's, Barrett's Pill's, 1 Sweeting's Elixir, 1 Henry's Nervine, 3 Clarke's Skin Lotion; 1 each 1s. 9d. Crosby's Elixir, 3s. 6d. Fer. Bravais, 2s. 6d. Martindale's Amyl Capsules, 2s. 6d. Floriline, 2s. 9d. Godfrey's Ext. of Elder, 1s. 6d. Hopgood's Hair Cream, 4s. 6d. Townsend's Sarsaparilla, 1s. 6d. Cuff's Oils; 3 1s. Taylor's Red Oils; 4 2s. Corner's Devonshire Compound; 1 doz. 6d. Judson's Dyes for 2s. carriage paid. Cousins, Buckfastleigh.

Half marked price (or offers accepted) for 2 Malto-yerhine, 1 Maltine with Iron, Quinine, and Strychnine, 8 Rossetter's Hair-restorer, 1 Richmond's Horse-powder, 1 Morson's Pepsine Wine, all 3s. 6d. size; 1 Fox's Palatable Castor Oil, 1 Mackenzie's Codliver Oil, 12 Lineham's Hair-regenerator, all 2s. size; 5 Salt Regal, 1 Whitehead's Mustard, 1 Epps's Curacene, 1 Liebig's Chemical Food, 1 Eno's Phosphor, Iron, and Quinine, 1 Salodent, 16 Lineham's Hair-regenerator, 3 Cavania's Cough Pills, 1 Cavania's Balsamic Pills, 1 Cavania's Worm-powder, 2 De Roos' Renal Pills, all 2s. 9d. size; 1 Liebig's Chemical Food, 3 Cavania's Tape-worm Powder, 4s. 6d. size; 1 6s. 6d. Maltine with Pepsine and Pancreatine; 1 Fox's Palatable Castor Oil, 8 Pilling's Hair-restorer, 3 Lineham's Hair-restorer, 1s. size; 2 Ramsey's Spice-nuts, 1 De Roos' Renal Pills, 4 De Roos' Pilulæ Vitæ, 1 Cavania's Worm-powder, 3 Pott's Corn-plasters, 1s. 1½d. size; 16 1s. 6d. Wiley's Essence for Horses; 2 Dr. Kitto's Hair-restorer; also dispensing-scales, specie-jars, cheap; stamp for particulars. Foster, Chemist, Dewsbury.

Educational.

Student's microscope for sale, cheap; good condition; complete. Particulars, Trunchion, 2 Copenhagen Street, N.

Attfield, Bentley, Squire, Wills, and others; latest; cheap; list free. 3 Crosby Road North, Waterloo, Liverpool.

What offers? Roscoe's chemistry microscope, in case, cost 25s.; botanical dissecting instruments, 3s. 6d.; Bower's "Practical Botany," 7s. 6d.; Noad's "Analysis," 15s.; Griffin's "Chemical Recreations." 253/25, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Squire's "Companion," 9th edition, 4s.; Martindale's "Extra Pharmacopœia," 1886 3s.; "Selecta Prescriptis," 2s. 6d.; Fowne's "Chemistry," 6s.; 14 vols. *Year Book of Pharmacy*, 1870 to 1884 inclusive, except 1883, offers: Attfield's "Pharmaceutical Chemistry," 4s. 6d. "Chemist," 2 Saunders Street, Southport.

Miscellaneous.

Tricycle; Quadrant No. 8; solid tyres; beautiful order; cheap. Baxter, Bramley, Leeds.

Specie-jar and stand, about 36 in. high, equal to new; dispensing scales; "Kodak"; offers requested. Inglis, Delph.

Rich or pale gold bronze, 1 lb., post free, for 1s. 11d.; quantity less; very much overstocked. Hare, Chemist, Nottingham.

Five gross No. 2 seamless teats, 3s. 9d. gross, less quantities 4s.; carriage paid; send stamp for sample. Roberts, 3 Skipton Street, Southwark.

For disposal, about 10 doz. pairs spectacles, assorted sights and prices, from 1s. to 7s. 6d. retail; full particulars on application; net cost was about 6l. Bates, Chemist, Slaithwaite.

Set of rubber metal-bodied type, about twice size of this; about 450 pieces; two holders, reglets, &c.; no approval; first 10s. has it; worth double. Wright, Hebden Bridge.

WANTED.

The Chemist and Druggist for July 15, 1880. Postcard to 251/13, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Beecham's, Seigel's, Winslow's, "Frog-in-the-Throat," and other saleable patents. 253/26, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Last edition "Martindale"; exchange Tome's "Dental Surgery," 3rd edition, as new, cost 15s., or sell 8s. 252/34, Office of The Chemist and Druggist, 42 Cannon St., E.C.

Gunmetal vulcaniser, complete, perfect, state price and make; bent-glass counter-case, about 5 ft. 6 in. long; also upright, about 3 ft. long by 2 ft. 6 in., to open at back. Collins, Duke Bar, Burnley.

Near London, soda-water machine for compressed gas, with syphon and bottle fillers, ayrupers, &c.; must be in perfect condition and capable of turning out 350 doz. bottles a day by hand-power, and subject to approval. Send full particulars and price to Rea, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

Addresses Wanted.

Address of G. C. Haines, gasfitter; in the habit of taking 2-grain morphia pills. Griffith, Chemist, Canterbury.

The present address of C. W. Shepherd, Chemist, late of Ilkley, Yorkshire. 92/55, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

EASTMAN'S

SOLIO PAPER.

The typical and standard printing-out paper of the day. Prints made upon it are distinguished by their delicacy, richness of detail, and beauty of finish.

Unrivalled for excellence of quality and ease of manipulation. Gives clear whites, exquisite tone, and high gloss; will neither curl, frill, nor blister; incomparable for ease and rapidity of working. Great depth and variety of tone.

In white, pink, mauve, and pensé—the last specially recommended for export.

MATTE SOLIO PAPER.

Possesses all the excellent qualities and characteristics which distinguish glossy Solio, and is printed, fixed, and toned in exactly the same manner.

The tones are exceedingly delicate, ranging from warm sepia to soft black.

Great richness of detail, softness, and fidelity of gradation are obtained.

BROMIDE PAPERS.

For enlarging, or for printing by contact from negatives. Unequalled for perfection of coating, delicacy of gradation, clearness and depth of shadows, and uniformity.

"PERMANENT." Specially suitable for printing by contact from soft and delicate negatives, and for enlarging by daylight.

"EXTRA RAPID" Specially suitable for printing by contact from hard and dense negatives, and for enlarging by artificial light.

The papers are coated in three grades, and are known as "A" Thin, Smooth. "B" Thick, Smooth. "C" Thick, Rough.

PLATINO BROMIDE PAPER.

An argentic Bromide paper, which gives the effects of Platinotype, and is at the same time far easier to work. It is distinguished by the soft grey and rich velvet and Platinotype tones, with the perfect matte surface of the finished print on both the rough and smooth paper.

Platino Bromide paper can be used for making either enlargements or contact prints. The method of treatment is the same as that employed with Eastman's other Bromide papers.

NIKKO PAPER.

For enlarging, or for printing by contact from negatives.

Combines the soft effect of a platinum or bromide tone with a highly enamelled surface. It has a delicate pink tint, and is especially recommended for those who prefer a warmer tone than that of the ordinary bromide print.

Contact prints or enlargements on this paper have a superior gloss; they possess bright, clear high lights, beautiful half-tones and deep rich shadows, and are transparent without blackness.

No other paper gives such perfect results with so little retouching.

EASTMAN Photographic Materials Co. Limited,
115-117 Oxford Street, LONDON, W.

PARIS: 4 Place Vendôme.

ROCHESTER, N.Y., U.S.A.
Eastman Kodak Co.

THE SPECIAL ATTENTION OF CHEMISTS

IS DRAWN TO THE FOLLOWING:—

LINSEED, LIQUORICE, AND CHLORODYNE COUGH LOZENGES.

A HANDSOME COUNTER MAHOGANY SHOW CASE

Given to any Chemist buying 1 cwt. of above Lozenges. Price 1/- per lb. net.

GIBSON'S VOCAL LOZENGE

"TOP NOTE PRODUCERS."

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affections. Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknown to those who regularly use these valuable Lozenges. **Sold in 1/1½ and 2/9 Boxes.**

CHERRY BLOSSOM LOZENGE,

The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver-top Screw-stoppered Bottles.

VOICE AND THROAT LOZENGES,

FOR SINGERS AND PUBLIC SPEAKERS.

DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retailed at One Penny each.

Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.

Put up in 3-doz., 6-doz., and 1-gross Tins. [1]

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping House in the Kingdom.

Price Lists sent on application to

ROBERT GIBSON & SONS, CARLTON WORKS, MANCHESTER.

AND

NO. 1 GLASSHOUSE YARD, ALDERSGATE STREET, LONDON.

The ORIGINAL and by far the BEST STICKY FLY PAPER in the MARKET.

THE "FLY CEMETERY"

BY ROYAL LETTERS PATENT. "CATCHES MORE FLIES IN A DAY THAN THE OLD FASHIONED PAPERS DO IN A WEEK." SOLD ALL OVER THE WORLD. PRICE ONE PENNY.

WELL KNOWN IN EVERY HOUSEHOLD IN THE KINGDOM.

ANNUAL SALE MILLIONS. BEARS LARGE PROFITS.

"The best test as to the efficacy of a Sticky Fly Paper is the length of time that it will retain its moisture and adhesiveness upon exposure to the air. We invite our friends to thus test our Paper against that of *any* rival manufacture by opening out the various samples and placing them side by side in the sun. We think it will be found that the 'Cemetery' will answer this test the most efficiently, and will not speedily become a mere *Skating Rink* for the Flies to amuse themselves upon."

NOTE.—The Fly Cemetery *is* folded over at the edges, as it is found by several years' experience that this is the method most appreciated by the general public as being the simplest plan, and most easy to open. When you know a good article stick to it as tenaciously as the Flies do to the Fly Cemetery.

MANUFACTURERS—

TUNBRIDGE & WRIGHT, READING.

NORTH OF ENGLAND DEPOT— 4 GALLOWGATE, NEWCASTLE-ON-TYNE.

TELEGRAMS— "FLIES READING."

FEARFULLY FATAL FOR FILTHY FLIES!!

1/8 ACTUAL SIZE

Can be carried in the Pocket.

1d. EACH.

MARSHALL'S FLY CATCHER.

PATENTED

WHEN COVERED PULL STRING O BACK TO REMOVE FLIES. AND USE AGAIN.

The Fly Paste for own use supplied in Tins at 2d.

Manufactory, Henfield, Sussex.

CLEAN TO USE.

1d. EACH.

THE ONLY REEL COMFORT.

MARSHALL'S

FLY & MOSQUITO CATCHER

IS NOT OFFENSIVE TO THE SIGHT.

Catches more Insects than Sticky Papers.

DOES NOT SPOIL BY KEEPING.

GOOD IN ANY CLIMATE

Therefore Specially Suitable for Export.

Promptly fixes the pests and rapidly clears a room of these carriers of disease and contagion.

Catches successive crops by drawing the String to and fro, at the same time Killing the Insects, thus there is no lingering torture.

STOCKED BY ALL THE LEADING LONDON, PROVINCIAL, AND COLONIAL HOUSES.

1/8 ACTUAL SIZE

WISE SAYINGS WITH A MODERN APPLICATION.

"At open doors dogs come in," and we might add Wasps, Spiders, &c. Get rid of the latter with Buchan's Death Jam.

BUY THEREFORE

THE PERFUMED STICKY FLY ENTICER.

1D. 1D.

Fly Enticer Gum.

Tins 2d. each.

The Surest and Best Fly Catcher.

TRADE MARK (Registered).

Death Jam.

Kills Wasps, Mosquitoes.

Tins, 6d, 1/-, and 2/6.

Most Alluring and very Sticky.

Send for Samples NOW, Post Free.

To be obtained from the principal Drug and Sundries Houses, or from the Manufacturer—

D. D. BUCHAN, FRIOCKHEIM, N.B.

Telegrams—"BUCHAN FRIOCKHEIM."

Sole Export Agents—BURGOYNE, BURBIDGES & CO., 16 Coleman Street, London, E.C.

FLYODOOMO

FLYODOOMO

FLYODOOMO

THIS IS THE NEW NAME FOR

SMITH'S FLY STICKERS

The Cleanest, Stickiest, and Best Fly Papers in the Market. Carefully rolled up so that the Composition cannot possibly get outside. Own Name and Address on 100-gross quantities.

Large Buyers should write for Samples and Quotations.

½d. and 1d. Sizes.

MAKER OF SUPERIOR FLY LIME.

SAMPLE AND PRICE ON APPLICATION.

JOHN H. SMITH,

NEWARK-ON-TRENT.

CHRISTY STRONG

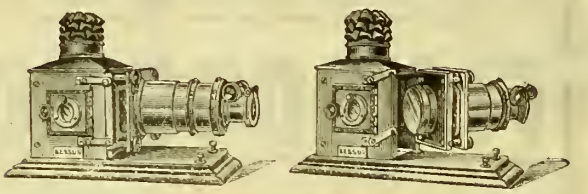
Begs to inform the Trade that he is now manufacturing MACHINE-MADE Fly Papers, a great improvement on the hand-made paper. They are the admiration of all who have seen and tested them.

1d. size **5/-** Per Gross, Post Paid.

Cash must accompany order. Mixed sample-box containing 4 dozen ½d. and 4 dozen 1d., post free, 3/-, or free samples on application.

READING.

BESSUS Single Lantern.

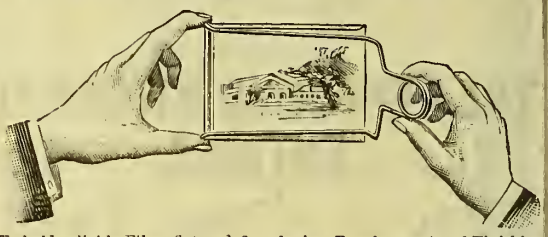


Designed and Manufactured for Work; a thoroughly reliable instrument—well made and well finished.

Fitted with Bessus Frame to give access to the interior from the front, 4-in. diam. plano convex and meniscus condenser, and double combination achromatic objective lenses, 2-in. diam., mounted in Rack Front.

Price £6 5s.

BESSUS Film Holder.



To hold rollable Films flat and firm during Development and Finishing

AIRS & CO., 152 Farringdon Rd., LONDON, W.C

Telep' one—35147. Telegrams—"ASTIGMATIC."

J. RAPHAEL & CO.

Holders of the largest stock of Spectacles and Folders in every recognised material.

ODD ORDERS AND PRESCRIPTIONS BY RETURN

13 OXFORD STREET, LONDON, W.

Correspondence cordially invited, and every information most willingly given to assist Chemists who desire to build up this lucrative adjunct.

GREAT SUCCESS OF OUR NEW ISSUE OF PLATES!

Users say they cannot speak too highly in their praise.

"CATHCART" ORDINARY.
A 1 for Landscapes.

"CATHCART" SPECIAL RAPID.
THE Plate for the Studio.

"RUNAWAY."
Extreme Rapidity. Thickly coated for Snap Shots.

READY SENSITISED PAPER.
Any Brand or Tint.

To Dealers and Shippers we offer exceptional terms. Lists and Terms on application. F. W. VÉREL & CO., Cathcart, GLASGOW

THE KOMBI, 15/-

BEST SELLING CAMERA on the Market.

EACH INSTRUMENT GUARANTEED.

Send for Sample Photograph and Trade Prices.

ALFRED C. KEMPER, Manufacturer,
ADAMS & HAYDEN, Managers,
36 OXFORD STREET, LONDON, W.
CHICAGO: 208 Lake Street. | BERLIN: 10 Taubenstrasse, W.

Grown bald with worry and Trade Depression, Bowers Brothers' Recipes catch his eye.

He has tried them. Note the evolution and surprising result.

He's happy now because he uses regularly Bowers Brothers Nuts.

BOWERS BROTHERS, The Chemists' Attractive Printers 89 BLACKFRIARS ROAD, S.E.

PERFORATED ROLLS

FROM

24/-

Per Gross.

PRICE LIST ON APPLICATION.

BANNER STREET, LONDON, E.C

FLUID & Disinfectants POWDER

NON-POISONOUS

ONCE USED ALWAYS USED.

UNEQUALLED FOR DOMESTIC USE.

"ODAMINE"

USED IN CASTLE, HALL, AND COTTAGE, HOSPITAL, WORKHOUSE AND FARM.

Manufactured by ODAMS' MANURE & CHEMICAL CO. (LIM.), 116 Fenchurch Street, LONDON, E.C.

THE MOST RELIABLE, SAFEST, AND CHEAPEST

MOTH PREVENTIVES

In the Market are

MIKADO MOTH PAPER
ALABASTRINE TABLETS AND
CRYSTALLISED CAMPHYLENE

1/- per box, with Liberal Discount to Wholesale Buyers and Retailers.

They are Non-Poisonous, and are a Sure Preventive against the Ravages of Moths, Gnats, Flies, and other Insects in Clothes, Rugs, Carpets, Furs, Furniture, &c., &c.

Procurable through all Wholesale Houses, or direct from the Sole Manufacturers,

FLEMING'S OIL & CHEMICAL CO., LIM.
101 LEADENHALL STREET, LONDON, E.C.

JAMES BOULTON & CO., LIM.

CHEMICAL MANUFACTURERS,
CRAYFORD MILLS, STRATFORD, LONDON.

Manufacturers of the Finest Steam-made
GRANULAR EFFERVESCENT PREPARATIONS.
ACETIC ACID. ACETATE POTASSIUM.
SPIRIT AND VINEGAR COLOURING.
GLYCERINE FRUIT ESSENCES, &c.

Sole Proprietors and Manufacturers of
THE NEW PRESERVATIVE:
SEMPER-DULCIS OR EVER-SWEET,
For Milk, Cream, Butter, Sausages, &c., &c.

FINEST BUTTER-COLOUR (Buttercup Brand)
SEND FOR QUOTATIONS

INDIA.

PEAKE, ALLEN & CO.

CHEMISTS, DRUGGISTS,
AND
GENERAL MERCHANTS,
LUCKNOW, OUDH, INDIA,

Possess exceptional facilities for the introduction of NEW SPECIALITIES, Patent Medicines, Druggists' Sundries, Perfumery, &c.

TO THE TRADE.

No more Weeds! Noxious Vegetation of every description permanently destroyed by one application.

THE

"ACME" WEED KILLER

IS RECOMMENDED BY

Mr. W. G. HEAD, Crystal Palace,
Mr. LYNCH, Curator, Botanic Gardens, Cambridge,

And others, for destroying Weeds on Garden Walks, Carriage Drives, Roads, &c.

One application will keep Walks, &c., clear of Weeds for Eighteen Months.

RETAIL PRICES.—In 1 and 2 gall. tins, 2*s.* per gall. (tins included); 5-gall. drums, 1*s.* 6*d.* per gall.; 8 galls., 1*s.* 5*d.* per gall; 10, 15, 18, and 20 galls. 1*s.* 4*d.* per gall.; in 40-gall. casks, 1*s.* 3*d.* per gall. Used in the proportion of 1 gall. to 25 galls. water, and applied with an ordinary watering can.

DOUBLE STRENGTH.

If desired we can supply the "ACME" WEED KILLER *double strength* 1 gall. to be mixed with 50 galls. of water, especially suitable for export.

RETAIL PRICES.—1 and 2 gall. Tins, 3*s.* per gall. (tins included) 5 galls., 2*s.* 6*d.* per gall.; 8 galls., 2*s.* 4*d.* per gall.; 10, 15, 18, and 20 galls. 2*s.* 3*d.* per gall.; 40-gall. casks, 2*s.* per gall.

Carriage paid on 6 galls. in tins, or 5 galls. in drum.

POWDER WEED KILLER.

In tins, 2 lbs., sufficient for 25 galls. water. Prices on application.

TRADE TERMS ON APPLICATION.

We shall be pleased to supply (gratis) illustrated circulars with the name and address of tradesmen printed thereon, show card, &c.

THE ACME CHEMICAL CO., LIMITED,
TONBRIDGE, KENT,
And CARLTON STREET, BOLTON, LANCS.
AGENTS WANTED EVERYWHERE.

THE SCHOOL OF PHARMACY

Of the Pharmaceutical Society of Great Britain.

Chemistry, Prof. DUNSTAN, M.A., F.R.S. Practical Chemistry, Prof. ATTFIELD, F.R.S.
Botany, Prof. REYNOLDS GREEN, Sc.D., M.A. (*Dean*). Pharmacy, Mr. JOSEPH INCE, F.C.S.
Materia Medica, Prof. H. G. GREENISH, F.L.S.

FIFTY-SECOND SESSION, 1894-95.

Application for admission to the School, for Prospectuses, or for further information may be made to the Dean, or to Mr. F. W. SHORT, *Secretary to the School*, 17 *Bloomsbury Square, London, W.C.*

LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

Contains 90 beds, and, being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their residences G. A. CROSS, *Secretary-Superintendent.*

READ AND USE

THE ART OF DISPENSING. Price 3s. 6d.

ALPE'S HANDY BOOK OF MEDICINE STAMP DUTY. Price 2s. 6d.

PROCTOR'S MANUAL OF PHARMACEUTICAL TESTING. Price 2s. 6d.

VETERINARY COUNTER PRACTICE. Price 3s. 6d.

Published at the Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street E.C.

NORTHERN COLLEGE OF PHARMACY,

100 BURLINGTON STREET, MANCHESTER.

Principal—Mr. GEO. CLAYTON, PH.C., F.C.S.
Assisted by Mr. F. LAWSON, PH.C.

At the April Examinations the following twelve gentlemen passed from the "Northern."

MINOR.

Mr. A. H. BARTON.	Mr. A. S. GALLOWAY.	Mr. F. B. KERSHAW.
" A. H. CHARNLEY.	" J. P. GAMBLING.	" A. H. LEACH.
" W. E. DARNEY.	" F. A. HOWARTH.	" F. P. MERCER.
" J. S. FLOWER.	" A. HOYLE.	" R. T. SIMPSON.

New Prospectus will be posted on application to the PRINCIPAL.

THE MANCHESTER COLLEGE OF PHARMACY,

225A & 227A OXFORD STREET, MANCHESTER.

DIRECTOR:
Mr. CHARLES TURNER, F.C.S., Pharmaceutical Chemist.

The Short Course for the July Examinations will begin on MAY 20th.

The next Full Term will begin on AUGUST 19th.

The Afternoon Classes meeting on Tuesdays, and the Evening Classes, full details of which will be sent on application, are very useful to Local Students and are well attended. The members do two hours' practical Laboratory work each week. Experiments such as the vapour density process, and the preparation of ether, are shown in the lecture-room as required, and botanical specimens are dissected by the Students every other week.

METROPOLITAN COLLEGE of PHARMACY.

Principal—W. WATSON WILL, F.C.S.

SUMMER SESSION.

The Summer Course of Lectures for the July Examination commenced on April 17 and terminates on July 27. Intending Students should join at the beginning of the Session.

Fees—Major Course, 6 Guineas. Minor Course, 10 Guineas.
Fees charged are absolutely inclusive. No extra or petty charges.

HALF-TERM COMMENCES ON MAY 27th.

Fees—Major, 3 Guineas. Minor, 6 Guineas.

APRIL EXAMINATION PASS LIST ..	MAJORS, 2.	MINORS, 6.
JANUARY AND APRIL LIST	MAJORS, 5.	MINORS, 20.

The above results afford ample evidence of the sound and thorough system of education acquired at this College.

Evening classes are held on Monday, Tuesday, Wednesday, Thursday, and Friday, and a complete course of work is arranged for each session. Special Prospectuses have been arranged for these classes.

For New Prospectuses and Full Particulars, apply to
W. S. CARVER, Secretary, 162 Kennington Park Road, **LONDON, S.E.**

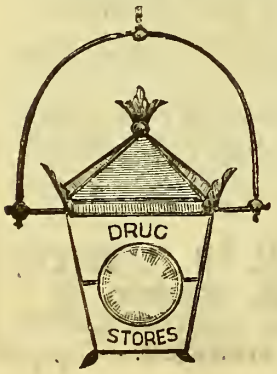
ADVERTISING BALLOON CO.

ALTRINCHAM, ENGLAND.

Advertising Balloons, printed with name, trade, and address, from 12/- per gross; each Balloon fitted with the improved long nozzle, so that a child can blow them out. We put name, &c., one side, and any figure the other; also Oarboys and Pestles. Advertising Balloon Squeakers with Advertisement, 3/- gross 10-gross lots. As a testimony to the quality of our manufactures, the largest advertising firms in the world have adopted our goods. Makers of all kinds of Pessaries. Skins, Sheet Rubber Surgical Appliances, &c., &c. Special terms for Shipping and the Wholesale.

Sample Rooms—9 Newton St., PICCADILLY, MANCHESTER.

A. D. DOUGLAS, Agent,
321 VICTORIA ARCADE, AUCKLAND, NEW ZEALAND.
54 QUEEN STREET, MELBOURNE, AUSTRALIA. [1]



LAMPS FOR CHEMISTS

At Manufacturers' Lowest Prices.

ENGRAVED WINDOW TABLETS

In Opal and Coloured Glass.

A Sample Tablet, 13 by 10 ins., framed complete, with any wording, carriage paid, 4/6.

CASPAR & CO., LIM., 76, 77, & 78 HIGH HOLBORN, LONDON.

MESSRS. LONGMANS & CO.'S LIST.

Complete in THREE VOLUMES, Half-Bound. Vol. I., with 236 Illustrations, 8vo, £2 2*s*. Vol. II., with 240 Illustrations 8vo, £2 2*s*. Vol. III., with 352 Illustrations, 8vo, £3 3*s*.

A DICTIONARY OF APPLIED CHEMISTRY.

By T. E. THORPE, B.Sc. (Vict.), Ph.D., D.Sc. (Dubl.), F.R.S., Professor of Chemistry in the Royal College of Science, London. Assisted by Eminent Contributors.

Complete in FOUR VOLUMES. Half-Bound. Vols. I. and II., £2 2*s*. each. Vol. III., £2 10*s*. Vol. IV., £3 3*s*.

WATTS' DICTIONARY OF CHEMISTRY.

Revised and entirely Rewritten by H. FORSTER MORLEY, M.A., D.Sc., Fellow of, and lately Assistant Professor of Chemistry in, University College, London; and M. M. PATTISON MUIR, M.A., F.R.S.E., Fellow and Prælector in Chemistry of Gonville and Caius College, Cambridge. Assisted by Eminent Contributors.

TABLES AND DIRECTIONS FOR THE QUALITATIVE CHEMICAL ANALYSIS OF MODERATELY COMPLEX MIXTURES OF SALTS. By M. M. PATTISON MUIR, M.A., Fellow and Prælector in Chemistry of Gonville and Caius College, Cambridge. Crown 8vo, 1*s*. 6*d*.

GANOT'S ELEMENTARY TREATISE ON PHYSICS, Experimental and Applied. Translated and Edited from Ganot's "Eléments de Physique," by E. ATKINSON, Ph.D., F.C.S. Fourteenth Edition. Revised and Enlarged. With 9 Coloured Plates and 1,028 Woodcuts. Crown 8vo, 15*s*.

GANOT'S NATURAL PHILOSOPHY FOR GENERAL READERS and YOUNG PERSONS; a Course of Physics divested of Mathematical Formulæ, expressed in the language of daily life. Translated and Edited from Ganot's "Course Elémentaire de Physique," by E. ATKINSON, Ph.D., F.C.S. Seventh Edition. With 37 Pages of New Matter, 7 Plates, 569 Woodcuts, and an Appendix of Questions. Crown 8vo, 7*s*. 6*d*.

HEAT. For the use of Schools and Students. By LINNÆUS CUMMING, M.A., late Scholar of Trinity College, Cambridge; Assistant Master at Rugby School. With numerous Illustrations. Crown 8vo, 4*s*. 6*d*.

CELLULOSE: AN OUTLINE OF THE CHEMISTRY OF THE STRUCTURAL ELEMENTS OF PLANTS. With Reference to their Natural History and Industrial Uses. By CROSS and BEVAN (C. F. CROSS, E. J. BEVAN, and C. BEADLE). Crown 8vo, 12*s*. net. [*Just published.*

THE PRINCIPLES OF CHEMISTRY. By D. MENDELÉEFF, Professor of Chemistry in the University of St. Petersburg. Translated by GEORGE KAMENSKY, A.R.S.M., of the Imperial Mint, St. Petersburg, and Edited by A. J. GREENAWAY, F.I.C., Sub-Editor of the Journal of the Chemical Society. With 97 Illustrations. 2 Vols., 8vo, 36*s*.

OUTLINES OF THEORETICAL CHEMIS- TRY. By LOTHAR MEYER, Professor of Chemistry in the University of Tübingen. Translated by Professors P. PHILLIPS BEDSON, D.Sc., and W. CARLETON WILLIAMS, B.Sc. 8vo, 9*s*.

A TEXT-BOOK OF INORGANIC CHEMIS- TRY. By G. S. NEWTH, F.I.C., F.C.S., Demonstrator in the Royal College of Science, London; Assistant Examiner in Chemistry, Science and Art Department. With 146 Illustrations. Crown 8vo, 6*s*. 6*d*.

LONDON: LONGMANS, GREEN & CO.

NOW READY, SECOND EDITION, CROWN 8VO, PRICE 5*s*.

A PRACTICAL MANUAL OF

VENEREAL & GENERATIVE DISEASES

Including SPERMATORRHŒA, PROSTATORRHŒA, IMPOTENCY, and STERILITY in both Sexes.

By M. K. HARGREAVES, M.D.

Assistant Physician to St. John's Hospital for Diseases of the Skin.

LONDON: R. KIMPTON, 128 WARDOUR STREET, LONDON, W.C.

Sixteenth Edition, much Enlarged. Price 12*s*. 6*d*.

SQUIRE'S COMPANION TO THE BRITISH PHARMACOPŒIA.

London: J. & A. CHURCHILL, 11 New Burlington Street, W.

NOW READY! NOW READY!!

To Chemists, Patent Medicine Dealers, Manufacturers, and Representatives.

THE SECOND AND ENLARGED EDITION OF

LEGGETT'S COMPENDIUM

Of Patent Medicine Dealers, Drug Stores, Grocers, Limited Companies and Co-operative Stores, dealing in Patent Medicines; also the principal London and Provincial Wholesale Druggists and Sundrymen, Proprietors of Medicines, with Telegraphic Addresses, &c. A Book of over 90 pages, arranged in alphabetical order for ready reference to Town, Population, Market Day, Early Closing Day, Pharmacy Act, 1868, with Poisons Schedule affecting Druggists and all Dealers in Drugs and Medicines; also the Law upon Poisons, Proprietaries containing same, and Counter Prescribing explained, including a comprehensive List of Proprietary Medicines, containing Poison and Conditions as to their Sale; and also a Summary of recent Law Court Decisions and other information. No pains have been spared to make the work useful for both Chemists and Dealers, besides being a valuable Directory to this class of traders at a small cost. Those requiring an early copy should remit Postal Order for 2/- to the Author,

W. T. LEGGETT, 95 Boaler Street, LIVERPOOL.

THE NEW PERMANENT

ENGRAVED WINDOW TABLETS,

PRIZE MEDAL, International Health Exhibition, 1884.

IN RUBY, BLUE, AMBER, AND OPAL GLASS.

AWARD OF MERIT, International Sanitary Exhibition, 1881.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8×6 Ruby Tablets, £3 15*s*. 0*d*.

J. R. CORSAN, THE LONDON SAND-BLAST WORKS, **58A GRAY'S INN ROAD, W.C.**

TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.

SYPHONS | SELTZOGENES

Messrs. J. BARBE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.

81 ROBERTSON STREET, GLASGOW

PRICES.

SYPHONS — 1/6 1/8 and 1/10 each.

SELTZOGENES.

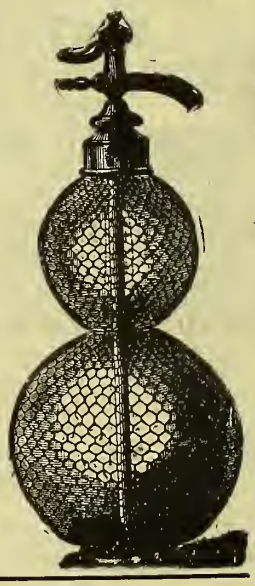
1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.

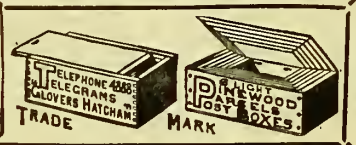


"A CAPITAL IDEA"!!

Said friend JONES, the GO-AHEAD CHEMIST. "I'VE DOUBLED MY TRADE last year since I commenced packing all my customers' prescriptions in Glover's small wood boxes."

And JONES CHUCKLED!!

WOODEN BOXES ALL SIZES MADE TO ORDER



PRICE 14/- per doz. nests of 6 Boxes, planed and hinged, from 5"×2½"×1½" to 9½"×6½"×4½". Nests of 6 for Bottles, 4 oz. to 16 oz., at same price. Single nest, 1/6. *Special Terms for Large Quantities to Shippers.*

"CAPITAL, INDEED"!!!

Said the Colonial Shipper. "Those light nested boxes, shipped in cases (each containing ½-gross nests), are just what is wanted, and I am getting repeat orders doubled. We are all indebted to the Makers, Messrs. C. H. GLOVER & CO., of Hatcham Sawmills, Ormside St., Old Kent Road, LONDON, S.E."!!

PATENT PARCEL POST BOXES.

A Perfectly Cushioned Box, suitable for any description of

CLASS BOTTLES OR FANCY GOODS.

SPECIAL CUSHION, SILK LINED, for HIGH-CLASS GOODS.

LOOSE OR HINGED LID BOXES OR TUBES.

Set of 6 Hinged-lid Cushioned Boxes for Bottles 4 oz. to 16 oz., 1*s.* 3*d.*, post free.

Special set of 6 for Fancy Goods { Plain, 1*s.* 3*d.*, post free. Fancy, 2*s.* 6*d.* „

Quotations for quantities, Plain or Printed, per return post.

ORDERS PROMPTLY EXECUTED.

G. C. KIRTLEY, Printer and Box Maker,
3 Elswick Court, NEWCASTLE-ON-TYNE.

ESTABLISHED 50 YEARS.

PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

EUGENE GERAUT & CO.'S

LATEST

NEW PATENT SELTZOGENE.

PATENT No. 18,305.

The Best Seltzogene Extant and Warranted.

In place of Screw on Tap, there is a Clip, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at top, and making perfectly air tight the Apparatus.

Wear and Working Guaranteed.
No more Screwing required.
Tap cannot get Corroded.

GREAT REDUCTION IN PRICE.

3-Pint Patent Wire, 11/-	..	Cane, 12/2
5-pint „ „ 14/9	..	„ 16/3
8-pint „ „ 22/6	..	„ 25/6

Large Discounts allowed off for quantities.

POWDERS FOR ABOVE.

3-pint—1 doz. boxes containing 12 charges,		16/-
5-pint „ „	„	24/-
8-pint „ „	„	40/-

Liberal Discount allowed off for quantities.

This Patent can be fitted to any Seltzogene if required.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

The Premier Manufacturers in the United Kingdom.

SOLE ADDRESS—**139 & 141 FARRINGDON ROAD, LONDON, E.C.**

Seltzogenes and azogenes Repaired.

To be had of S. MAW, SON & THOMPSON.

BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS ACTION

SODA-WATER MACHINE.

For use with the Liquified Carbonic Acid Gas.

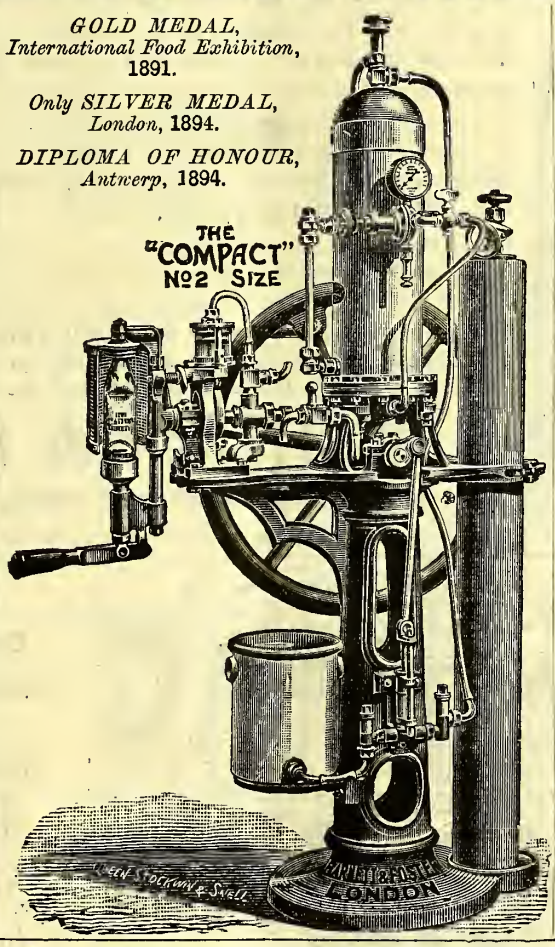
Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER.
NO MESS.
PERFECTLY RELIABLE.

GOLD MEDAL, International Food Exhibition, 1891.

Only SILVER MEDAL, London, 1894.

DIPLOMA OF HONOUR, Antwerp, 1894.



We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

In use by Leading Chemists in all parts of the United Kingdom.

TWO FILLERS INCLUDED.

No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£60**
Producing Capacity by Hand-power 600 dozen per day.
" " Power 1,200 " "

No. 2 Size, complete with Turnover and Syphon-filling Machine Code word (*Royalist*) **£48**
Producing Capacity by Hand-power 350 dozen per day.
" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon-filling Machine ... ... Code word (*Retailer*) **£33**
Producing Capacity by Hand-power 200 dozen per day.

Syrup Pump fitted to the Turnover Filling Machine on either of above (*Injecto*) £2 extra. If fitted with one Filling Machine only, the two largest Machines are charged £3 less than above prices.

SOLE INVENTORS AND MANUFACTURERS OF THE

"NIAGARA" BOTTLE AND THE LONDON-MADE SYPHON

KNOWN ALL OVER THE WORLD.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

NIAGARA WORKS, 26T EAGLE WHARF ROAD, LONDON, N.

IMPORTANT NOTICE.

THE

CARLSBAD MINERALWASSER VERSENDUNG

Beg to draw the attention of the Medical Profession and the Trade to the fact that the **Natural Salts of Carlsbad Mineral Water** are now also prepared in the form of *Powder* ("Pulverförmig"), which contains *all the constituents* of the *Sprüdel* Spring, the water of which is largely prescribed in cases of **Chronic Gastric Catarrh, Hyperæmia of the Liver, Gall-stones, Chronic Constipation, Diabetes, Renal Calculi, Gout,** and **Diseases of the Spleen, &c.**

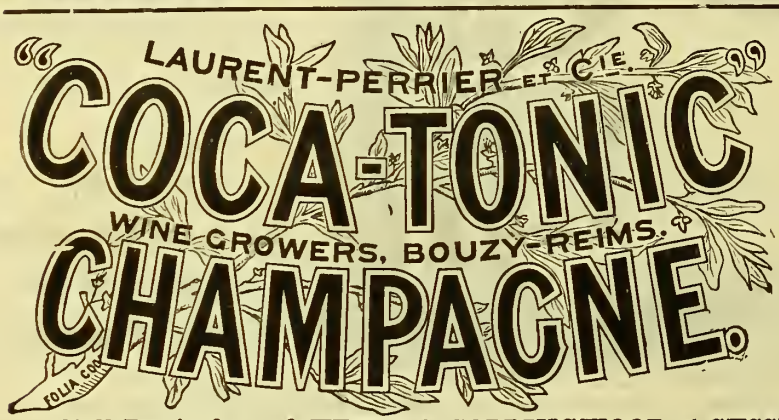
The *Powder* has the great advantage in not being affected by change of temperature or exposure to the atmosphere, and therefore in this form is the most reliable—especially for Export.

A SAMPLE of the SALT in POWDER FREE to Members of the Medical Profession or Chemists on application to the Sole Importers for the United Kingdom and the Colonies—

INGRAM & ROYLE,

52 FARRINGDON ST., LONDON, E.C.

AND 19 SOUTH JOHN STREET, LIVERPOOL.



SUGAR FREE.

Carefully Standardised.

Prepared by Actual Champagne Growers.

Prescribed as the Best Restorative Tonic for Influenza, and in cases of Insomnia, Neurasthenia, etc.

In Bottles, 2/- and 3/9.

Full Particulars of HERTZ & COLLINGWOOD. 4 SUSSEX PLACE. LONDON, E.C.

THE NEW PATENT "CLINCHER"

Is the latest thing in Seltzogenes.

Every Chemist should see this New Invention before ordering any more Ordinary Screw Taps.

NO SCREWS TO CORRODE OR GET JAMMED. EASY, RAPID, AND EFFECTIVE IN USE

SYPHONS & SELTZOGENES.

SYPHONS

EIGHT HIGHEST AWARDS

SUPERIOR QUALITY.

ENGLISH MAKE.

HEADS: Of Guaranteed Metal, Plain Burnished, Nickelled or Silver-plated.

VASES: Of Extra Strength, Finest Crystal and Colours; ornamentally Engraved; 18 to 50 oz. Capacity.

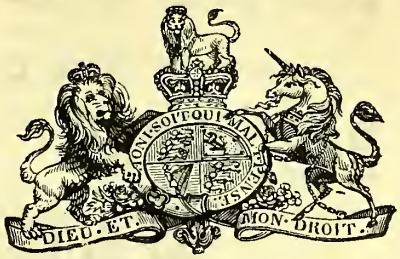
THE "MAJOLICA" SYPHON, Porcelain-lined Head, is specially adapted for a Chemist's trade. See *Lancet* Report.

LOWEST PRICES, consistent with First Quality and Workmanship, on application to

THE BRITISH SYPHON M'F'G. CO., 2 Gresham Buildings, Guildhall, LONDON, E.C.

IDRIS

IDRIS ROYAL TABLE WATERS ARE SUPPLIED BY SPECIAL WARRANT TO THE QUEEN.

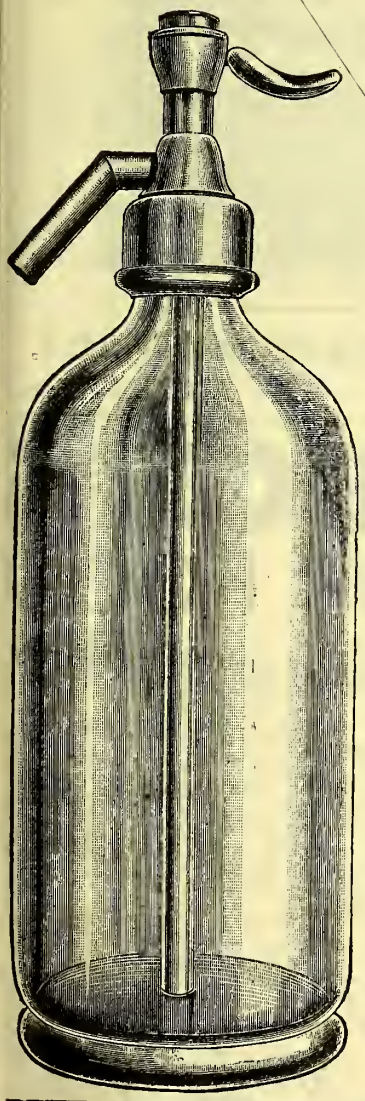


EIGHT GOLD MEDALS AT RECENT EXHIBITIONS.

ROYAL

All Chemists who wish to do a large trade in Mineral Waters are advised to stock these well-known Waters, which are in constant demand by the Public, and sell better than any others.

No Firm or Association can offer such facilities to Chemists to do a large trade.



TABLE

Medical Men strongly recommend Idris Table Waters. Chemists who have sold these Waters for many years still find their business increasing.

Sample Case sent Free to any Chemist. Attractive Circulars with Chemist's name.

HANDSOME SHOW CARDS.

WATERS

Elegantly - designed Tablets for shop windows and doors specially prepared to suit the requirements of each customer supplied free.

Chemists are invited to inspect Idris & Co.'s Factory.

IDRIS & CO., LIMITED,

CAMDEN TOWN, LONDON, N.W.; & COLEMAN STREET, SOUTHAMPTON.

EIGHT PRIZE MEDALS AWARDED

GOODALL'S

HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

GOODALL'S BAKING POWDER.

The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins

GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 Eggs. In 1d. packets; 6d., 1s., and 5s. Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2d., 6d., & 1s. each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3d. and 6d.

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and Quart Boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

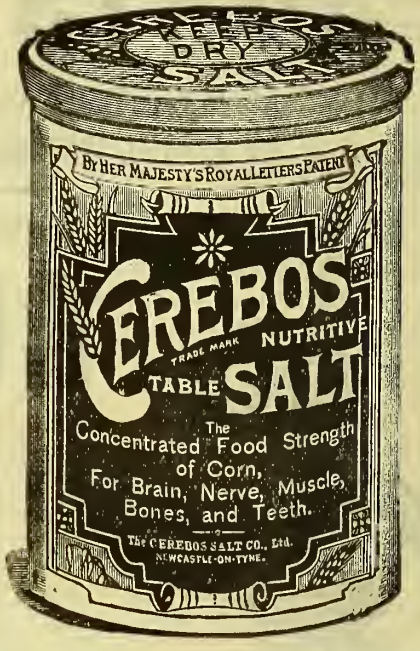
PATENT MEDICINES AND

DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

DAINTY—STRENGTHENING.



USED INSTEAD OF COMMON SALT.

RIDGE'S PATENT COOKED FOOD

Gives Health, Strength, Comfort to Old and Young, Quiet Nights to Mothers and Nurses.

DR. RIDGE'S PATENT COOKED FOOD Is certified to contain all the essentials of a Pure Dietary necessary to secure a healthy and natural development of bone and muscle, a vital necessity to growing infants and a comfort to all.

DR. RIDGE'S FOOD has the LARGEST SALE of any infant's food in the world.

SOLD EVERYWHERE.

The public are cautioned against all imitations.

Pamphlets and Showcards Post Free on application to

RIDGE'S ROYAL FOOD MILLS, LONDON, N.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.
d. Sample Bottles, dozen parcels	5/3	6/3
" " ½-gross boxes	5/9	6/9
d. Giant " dozen parcels	6/	8/6
" " ½-gross boxes	6/6	9/-

	Per gross.	Extra quality.
¼ Bottles, flat or round, reputed half-pints	16/-	26/-
⅓ " " " pints	26/-	38/-
1 Pint Imperial, round stoppered bottles	52/-	62/-
12½-Gallon Casks (*casks free*) each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly ½-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

CHAMPION'S VINEGAR

COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road. } LONDON.

ESTABLISHED OVER 200 YEARS.

NEEDS NO GUARANTEE.

DON'T SQUEEZE YOUR LEMONS

USE

THE LEMON JUICE EXTRACTORS

WE SELL AT 2/- & 2/6 PER DOZ.

BARCLAY & SONS, Ltd., 95 Farringdon Street, LONDON.

A. MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

THE MAWSON FILTERS.

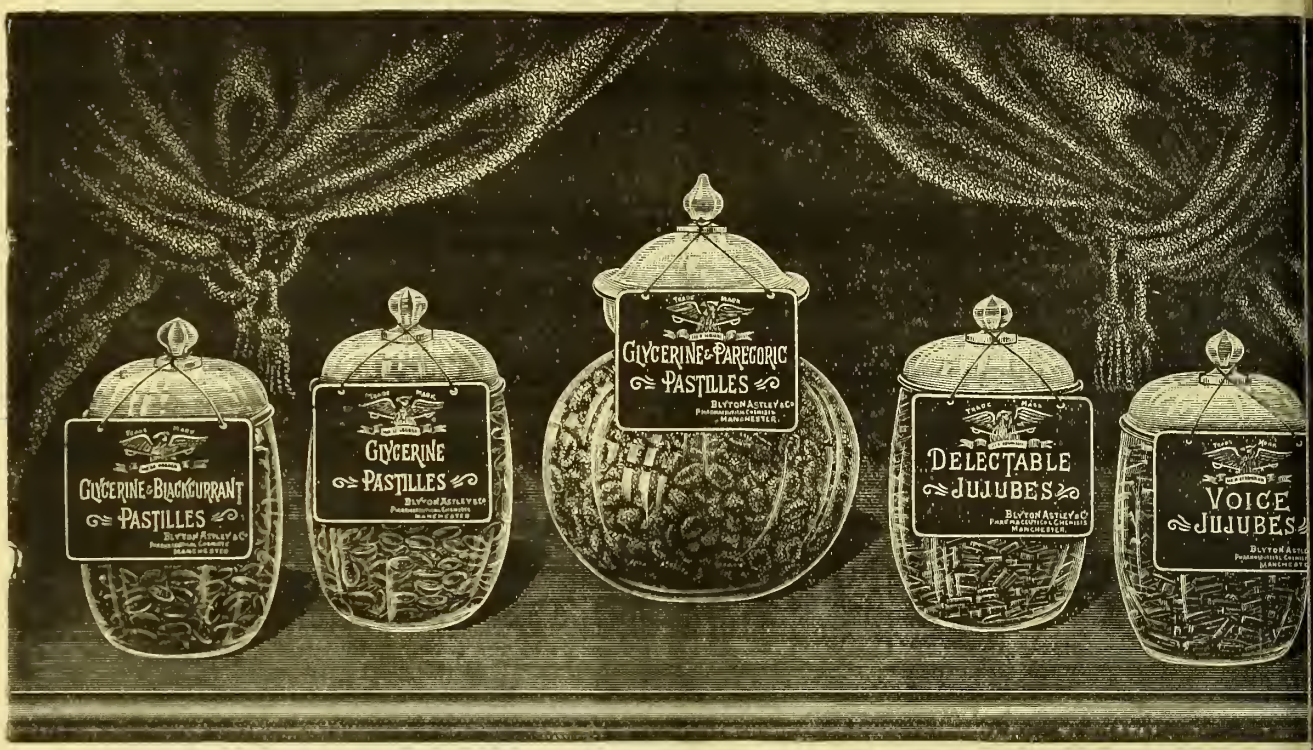
(BY ROYAL LETTERS PATENT).

GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.

New Illustrated Catalogue and Prof. Tichborne's special report forwarded on application.

THE MAWSON FILTER CO., 137a Pilgrim Street, NEWCASTLE-ON-TYNE.

SOLD BY ALL WHOLESALE DEALERS.



JUJUBES and PASTILLES.

MANUFACTURED BY

BLYTON, ASTLEY & Co., Manufacturing Pharmacists, MANCHESTER.

SALES

Doubled, sometimes Trebled, by suitable display of these Jars.

WHY HIDE YOUR GOODS IN TIN BOXES?

Try a set of Jars. The result will surprise you.

4-lb. Jars, 2/- per lb. nett. Glycerine and Paregorics, 1/8 per lb. Jars, 1/- each, nett.

Telegrams, "Troches Manchester." New Telephone, 1,159.

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS

INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

	Foot of Page
Acme Chemical Co.	17
Advertising Balloon Co.	18
Airs & Co.	16
Anglo-American Drug Co. (Lim.)	42
Apollinaris Co.	*Cover*
Armour & Co.	30
Aspinall, E. (Lim.)	4, 5
Australian Drug Co. (Lim.)	40
Ayrton & Saunders	63
Baiss Bros.	45
Baker, J. W.	59
Barclay & Sons (Lim.)	25, 29
Barnett & Foster	21
Barrett, R. H.	48
Barry, A.	58
Bennett & Jenner	58
Berdoe & Co.	*Coloured Supplement*
Bleasdale & Co. (Lim.)	57
Blondeau & Co.	3
Blyton, Astley & Co.	26
Boehm, F.	48
Boehringer & Söhne	46
Boord & Son	10
Boulton, J., & Co. (Lim.)	17
Bowdlear, W. H., & Co.	48
Bowers Bros.	16
Bowley, S., & Son	47
Bowling & Govier	62
Bow's (Dr.) Liniment	46
Bratby & Hinchliffe (Lim.)	20
Brett, F. J.	*Coloured Supplement*
British Castor Oil Co.	37
British Paper Co.	16
British Syphon Co.	22
Browne, T. B.	*Text* 688
Buchan, D. D.	15
Burrough, James	10
Burroughs, Wellcome & Co.	31, 32, 33, 34
Burrow, W. & J.	59
Bygrave, J. & W.	62
Cadbury Bros.	*Cover*
Caspar & Co. (Lim.)	18
Cerebos Salt	24
Champion & Co.	25
Christy, T., & Co.	53
Condy & Mitchell (Lim.)	*Text* 688
Corsan, J. R.	19
Cosmosine Co.	59
Critchley, T.	11
Crocker, G. B.	*Coloured Supplement*
Day, Son & Hewitt	64
Dee Oil Co. (Lim.)	57
Delatour Frères, L. A.	59
De St. Dalmas, A. E.	55
Dodge & Olcott	39
Eastman Photo Co. (Lim.)	12
Edwards, W. & Son	47
Elliman, Sons & Co.	*Text* 688
Eschmann Bros. & Walsh	54
Evans and Sons (Lim.)	51, *Cover*
Evans, Lescher & Webb	51, *Cover*
Evans, Sons & Co.	51, *Cover*
Exchange Column	12
Felton, Grimwade & Co.	41
Fentiman & Co.	58
Ferguson & Osborne	*Col. Supp.*
Ferris & Co.	53
Fink, F., & Co.	58
Fleming's Oil and Chemical Co. (Lim.)	17
Fletcher, Fletcher & Co.	*Text* 688
Gardner, W., & Sons	50
Geraut, E., & Co.	20
Gibson, R., & Son	13
Glendenning, W., & Sons	58
Glover, C. H., & Co.	20
Goodall, Backhouse & Co.	24
Hargreaves, Dr.	19
Harker, Stagg & Morgan	43
Haywood, J. H.	52
Hertz & Collingwood	22
Hewlett, C. J., & Son	45
Hockin, Wilson & Co.	60
Holloway, Professor	47
Hooper & Co.	*Cover*
Hora & Co.	*Text* 688
Hovenden & Sons	10, 66
Howlett, S.	62
Hubbuck, T., & Son (Lim.)	38
Hughes, E. G.	59
Idris & Co (Lim.)	23
Ingram & Royle	22
Isaacs, I., & Co.	48
Izal	57
Jacks, T.	47
Jaques, H.	43
Jewsbury & Brown	9
Josepha, P.	62
Kahnemann & Krause	55
Kay Bros. (Lim.)	42
Kempthorne, Prosser & Co.	40
Kent, G. B., & Sons	9
Kilner Bros.	49
Kirtley, J. C.	20
Kombi Camera	17
Kom-cha-chin Caloric	59
Krohne & Sesemann	16
"Lactophenin"	45
Lake, Millar, & Co.	54
Lambert, A., & Co.	52
Lander, Anderson & Co.	58
Lanoline	31
Leggett, W. T.	19
Lennon & Co. (Lim.)	41
Leo & Co.	43
Levermore, A., & Co.	58
Lincoln Drug Co.	42
Lloyd, Aimée	11
Lofoden Cod-liver Oil Co.	46
Lofthouse & Saltmer	38
London Homœopathic Hospital	18
Longmans & Co.	19
Lorimer & Co.	33
Lutheni & Co.	58
Manchester School	18
Marshall, E.	14
Martin, W.	*Text* 688
Mason, C. E. & Co.	51
Mawson Filter Co.	25
May & Baker (Lim.)	*Cover*
May, Roberts & Co.	*Cover*
Melin, C.	50
Metropolitan College	18
Millar, A., & Co.	25
Morrison, R., & Co.	44
Moss, John, & Co.	*Text* 688
Ness & Co.	58
Newbery, F., & Sons	51
Nicholls, G. W.	58
Northern School	18
Odams' Chemical Co. (Lim.)	17
Peake, Allen & Co.	17
Pears, A. & F. (Lim.)	35
Pfister, F.	48
Phillips & Co.	10
Price's Candle Co. (Lim.)	9
Raphael, J., & Co.	16
Remus, T.	56
Ridge, Dr.	24
Robare's Aureoline	10
Robbins & Co.	51
Robinson & Sons (Lim.)	16
Ross & Sons (Lim.)	53
Rypona	58
Sanger & Sons	51
Sanitas, The, Co. (Lim.)	*Text* 638
Saunders Bros.	59
School of Pharmacy, The	18
Sharp Brothers Soap and Perfumery Co. (Lim.)	6, 7
Shirley Bros.	51
Singleton & Cole	59
Smith, Bertie, & Co.	41
Smith, J. H.	15
Smith, T. & H., & Co.	38
Solport Bros.	54
Sozio & Andrioli	11
Spratts' Patent (Lim.)	64
Squire, P. W.	19
Standard Malt Extract Co. (Ld.)	44
Stevens, P. A.	58
Stevenson, H. E., & Co.	58
Stipendum Stopper Co.	50
Strong, C.	15
Taylor & Colledge	41
Thiellay, E. H.	58
Thornton-Pickard Co.	58
Tidman & Son	61
Todd, A. M.	8
Tomlinson, T.	*Coloured Supplement*
Tomlinson & Hayward	*Text* 688
Toogood, W.	55
Trade Mark Society (Lim.)	*Text* 688
Tunbridge & Wright	14
Tyrer, P.	25
Tyrer, Thos., & Co.	46
Vaccine Association	44
"Velutina"	65
Verel, F. W., & Co.	16
Victoria Rubber Co.	54
Walker's Semotine	54
Wand, S.	47
Wandsworth Chemical Works (Lim.)	57
Warren, A. & J.	59
Warrick Bros.	9
Washington Chemical Co. (Lim.)	46
Watson & Wates	59
Willcox, W. H., & Co.	50
Wood, V.	55
Wright, Layman & Umney	34

CLASSIFIED LIST OF ALL ADVERTISERS

ACETIC ACID
Lorenz, H.
Morris & Callard (Salts)

ACIDS
Boulton J., & Co., Lim.

ADVERTISING SPECIALITIES
Corsan, J. R. | Harris, J.

AERTD & MINRLS
Apollinaris Co.
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aerated Waters Association, Lim.
Ellis & Son (Ruthin)
Idris & Co., Lim.
Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourne)
Obserbrunnen

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett & Foster
Bratby and Hinchliffe, Lim.
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

AGNCIES ABROAD
Australian Drug Co.
Boissy
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
Soul, W. H., & Co.
Taylor & Colledge

ALKALOIDS
Howards & Sons (Cinchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

APPARATUS
Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
Deroy Fils Aine
Rogers, P.

BAKING POWDER
Goodall, Backhouse & Co.

BANDAGES
Bailey, W. H., & Son
Domen Belt Co.
Hatrick & Co., Lim. ("Shoot")
Robinson & Sons
Schultze, F., & Co.
Wood, Vincent

BATH & FLESH GLOVES
Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Solport Bros.
Wood, Vincent

BATH SALTS
Cosmosine
Landor, Anderson & Co.
Tidman & Son, Lim.

BEESWAX
Bowdlear & Co.
Evans, Sons & Co.
Kemp & Son

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BIPALATINOIDS
Oppenheimer, Son & Co.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOTTLES
Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Isaacs & Co.
Johnsen & Jörgensen
Kilner Bros.
Lofoden Cod Liver Oil Co.
Maw, S., Son & Thompson
Poths, H., & Co.
Rylands, Dan, Lim.
Stipendum Stopper Co., Lim.
Taylor, F. H., & Co.
Tidman & Son
Toogood, W | Youldon, E.

BOOKS
Hargreaves, Dr., M.D.
Heinemann. | Möller, W. P.
Leggett, W. T.
Longmans, Green & Co.
Martindale's Extra Pharmacopœia
Squire's "Companion"

BOXES
Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.
Ford, Shapland & Co.
Kent, G. B., & Son
Kilner Bros. | Kirtley, G. C.
Patent Stopper, Box, and Stamping Co. (Lim.) (Tin)
Remus, T. (Cardboard)
Robinson & Sons
Rylands Dan, Lim.

BORAX
Howards & Sons

BRUSHES
Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Baker, J. W.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Tomlinson & Hayward
Wells & Richardson Co.

CACHOUS
Bleasdale & Co.
Blyton, Astley & Co
Jackson, T.
Raimes & Co. | Warrick Bros.

CAMPHOR
Howards & Sons
May & Baker, Lim.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Harker, Stagg & Morgan
Moss, J., & Co.
Parks, Davis & Co.
Squire & Sons

CERESINE WAX
Boehm, Frank. | Pfister, F.

CAPSULES
Denonal, J. (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hatrick & Co., Lim. (Dun's)
Hooper, E., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Maw, S., Son & Thompson
Parks, Davis & Co. [Co., Lim.
Patent Stopper Box and Stamp
Richardson, John, & Co. (Leicester), Lim
Warrick Bros. | Wyleys, Lim.

CARBOLIC ACID
Mason, C. E., & Co.
Stevenson, H. E., & Co. [Lim.
Wandsworth Chemical Works,

CHALK, PRECIP.
Levermore, Aug., & Co.
Nicholls, G. W.

CHECK TILLS
National Cash Till Co.
Stokes, G. E., & Co., Lim.
Voucher Check Till Co., Lim.

CHEMICALS
Boehm, Frank.
Boehringer, C. F., & Sohns
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Burton, W., & Sons
Clayton Aniline Co., Lim.
Evans, Sons & Co.
Goodall, Backhouse & Co.
Graf, F.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treacher & Howards & Sons (Pharm.)
Lofthouse & Saltmer
Lorenz, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Morris & Callard | Moss & Co
Oppenheimer, Son & Co.
Smith, T. & H., & Co.
Stevenson, H. E., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHLOR. OF LIME
Government Sanitary Co.
Hebden, W. C.
National Chemical Co.

CHEST PROTCTRS
Ayrton & Saunders
Hockin, Wilson & Co.
Live pool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Schultze & Co. | Solport Bros
Wood, Vincent

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browns's)
Towle, A. P., & Son

CHLOROFORM
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co

COCAINE-HYDRO.
Howards & Sons

COCA WINE
Armbrecht, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.
Stephen Smith & Co. (Hall's)

COD-LIVER OIL
Allen & Hanburys
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Kemp & Son
Linton, Hubbard & Co.
Lofoden Cod Liver Oil Co
Lorimer & Co.
Möller, P. | Moss, J., & Co.
Oppenheimer, Sons & Co.
Richardson, J., & Co., Lim.
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakes)
Scott's Emulsion
Stevenson, H. E., & Co.
Terrell Co. (substitute)
Woolley, Sons & Co.
Wright, Layman & Umney

COLAPSBL TUBES
Betts & Co.

COMBS
Hovenden & Sons

COMP. MEDICINS
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcoms & Co.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Richardson, J., & Co., Lim.

CONCENT. LIQRS.
Bass Bros., & Co.
Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co.
Richardson, J., & Co., Lim.

CONFECTIONERY
Randall & Son

CORN CURES
Gardner, C.

COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRSHD LINSEED
Barclay & Son, Lim.
Mumford, G. S.

DENTIFRICES, &c.
Beecham, T.
Bronnley, H., & Co.
Fentiman & Co.
Hanson, C. | Hovenden & Sons
Jewebury & Brown
Lakeman, J. J. | Stevens, P. A.
Lnthecl & Co.
Sutton, C., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)

DIPHTHERIA REMEDY
Jacques & Co.

DISINFECTANTS
Barclay & Sons, Lim.
Besdzler & Co. | Brooks, T.
Drysdale, J. W., & Co.
Fletcher Bros. & Co.
Government Sanitary Co.
Hebden, W. C.
Jsyes' Sanitary Compounds Co.
Lake, Millar & Co.
Mackey, Mackey & Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Odams' Chemical Co., Lim.
Rigby, Ralph & Co.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co. Lim.
Wandsworth Chemical Works.

DOG MEDICINES
Spratt's Patent, Lim.

DRUGGISTS' SUN.
Ayrton & Saunders
Barclay & Sons, Lim
Bleasdale & Co., Lim.
Chemists' Association, Lim.
Coles Pneumatic Vaccination Shield Co., Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Feaver, J.
Fordham, W. B., & Sons, Lim.
Hatrick & Co., Lim.
Hockin, Wilson, & Co.
Hovenden & Sons
Howard, J., & Co.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Palmer & Co., Lim.
Quelch, H. C.
Reynolds & Branson
"Rypona"
Sanger & Sons | Schutzs & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Wood, Vincent

DRUGS
Allen, S., & Sons Grinders)
Bleasdale & Co., Lim. | Graf, F.
Hopf, R. Morrison, E., & Co.
Oppenhelmer, Son & Co.
Philips & Co. [(Grinders)
Richardson, J., & Co., Lim.
Saunders Bros.
Stevenson, H. E., & Co.

DYES, &c.
Crawshaw & Co.
Hatrick & Co., Ld., 'Diamond'

EAU DE COLOGNE
Farina, J. M.
Hockin, Wilson & Co.
Muhlens, F.
Van Oppen & Co.

ECZEMA
Cullwick's Skin Ointment
Cullwick's Blood Tablets

EMBROCATION
Day & Sons
Elliman, Sons & Co.
Harvey & Co.
"Rypona"
Walker's "Semotine"

ENGRAVERS
Corsan, J. R.

ESSENCES
Bonlton, J. & Co., Lim.
Bovril, Lim. (Beef)
Bratby & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
Idris & Co. Lim.
Lorimer & Co.
May & Baker, Lim.
Nawbal & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies
Tyrer, T., & Co.
Woolley, Sons & Co.

ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Hatrick & Co., Lim. ("Rack")
Putney, J., & Sons
Sanger & Son | Wood, Vincent

ESSENTIAL OILS
Allen, S., & Sons
Boehm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott
Drysdale, J. W., & Co.
Evans, Sons & Co.
Jakson, J., & Co.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Rylands, Dan. Lim.
Sanitas Co., Lim.
Sozio & Andrioli
Spurway & Co.
Stevenson, H. E., & Co.
Stevenson & Howell
Symes & Co. | Todd, A. M.
Treatt, R. C. | Warrick Bros.
Wldenmann, Broicher & Co.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS
Bush, W. J., & Co.
Langhland, Mackay & Baker
Tasmanian Eucalyptus Oil Co.

EXTRACT MEAT
Armour & Co. | Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co.
Wyeth, J., & Brother

EXTRCTS, FLUID
Allen & Hanburys
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Wright, Layman & Umney

EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Hovenden & Sons
Kilner Bros.
Marriott, E. & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Shirley Bros. | Youldon, E.

FILTERS
Fordham, W. B., & Sons, Lim.

FORMULÆ
Brooks, T.

FLY PAPERS
Buchan, D.
Ford, Shapland & Co.
Marshall, E.
May, Roberts & Co.
Silverlock, H. Strong, Christy
Smith, J. H.
Tidman & Sons
Tunbridge & Wright

FOOD (Infante' & Invalids')
Allen & Hanburys
Benger's Food
Brand & Co.
Cerebos Salt Co., Lim.
Evans, Sons & Co
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liquor Carnis Co.
Liebig Co. | Lorimer & Co
Mason, G., & Co., Lim.
Mellins Food | Nestlé, H.
Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.

FULLERS' EARTH
Barclay & Sons, Lim.
Fullers' Earth Mining Co., Lim.

GELATINES
Astley, Cooper & Co.
Boehm, F.

GINGER ALE
Bratby & Hinchliffe, Lim.
Chemists' Aërated & Mineral Water Association, Lim.
Ellis & Son
Mills, R. M. & Co.
Ross & Sons, Lim

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.

GUM
Fink & Co. (Arabic, &c.

GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
Wright, Layman & Umney

HAIR PREP.
Bates, F. W.
Chesebrough Co.
Edwards & Co.
Truefitt, H. P., Lim.

HERB BEER EXTS.
Newball & Mason
Pegg, J. A. | Potter & Clarke
Southall Bros. & Barclay

HOMŒOPATHIC
Epps, James & Co., Lim.
Keene & Ashwell
Leath & Ross
Watson & Wates

HYPOPHOSPH'TES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.

INHALERS
Burroughs, Wellcoms & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Martindale, W.
Toogood, W.

INK
Bewley & Draper, Lim.

INSECTICIDES
Barclay & Sons, Lim.
Fleming's Oil and Chemical Co. (Lim.) (Moths)
Hockin, Wilson & Co.
Jackson, T. (Bellowe)
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell

JELLOIDS
Warrick Bros.

KETCHUP
Tyrer, P.

KOLA
Christy & Co.
Moss, John, & Co.

LAMPS
Caspar & Co.

LARD
Ewen, J., & Sons

LIME JUICE
Evans, Sons & Co.
Lorimer & Co.

LINT
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORICE
Dennis Di Lugge & Co.
Evans, Sons & Co. (Savarini)
"Solazzi"

LIQUORS
Cooper & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Gibson, R. & Sons (Manfrs.)
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
"Solazzi"
Warrick Bros.

MACHINERY
Bennett, Sons & Shears Lim.
Gardner, W.
Hockin, Wilson & Co.
Melin, C. | Pindar, J. W.
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lloyd, T. Howard, & Co.
Lorimer & Co.
Washington Chemical Co.

MALT EXTRCT, &c.
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcoms & Co. (Kepler's)
Glendenning, W., & Sons (Wine)
Hearon, Squire & Francis
Lofoden Cod Liver Oil Co.
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Parke, Davis & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, John, & Co. Leicester), Lim
Robinson & Co

MANICURE
Hovenden & Sons

MARKING INKS
Bond (Daughter of the late John) (Ink & Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.
Warren, A. & J.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co.

MILK
Nestlé, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, Bertle, & Co.
Smith, T. & H., & Co.

NIGHT LIGHTS
Palmer & Co., Lim.

OILS
Bowley, S., & Son
Hooper, B., & Co. (Sandal Wood)

OILS, PAINTS, VARNISHES, &c.
Rigby, Ralph, & Co.

OINTMNT BASES &c.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim.
Rypona
Stevenson, H. E., & Co.

OPIUM
Hopf, R.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Raphael, J. & Co.

OTTO OF ROSE
Warrick Bros.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.
Stevenson, H. E., & Co.

PALATINOIDS
Oppenheimer, Son & Co.

PASTILLES
Jackson, T.

PAT. MEDCNS, &c.
Anglo-American Drug Co. Lim. [Presery.)
Atkinson & Barker (Infant
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Linlment
Chemists' Association, Lim.
Clarke's Blood Mixture
Cullwick's Skin Ointment
Cullwick's Blood Tablets
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powdere)
Goodall, Backhouse & Co.
"Hermanine"
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Mackenzie, Dr. (Catarrh Cure)
May, Roberts & Co.
Newbery, F., & Sons
Norton & Co. (Influenza cure)
Powell, T.
Roberts & Co (Foreign)
Sutton, W., & Co.
Warner, H. H., & Co., Lim.
Wilkinson & Co.
Wilson, A. (Bunter's Nervins)

PEPPERMINT OIL
Bush, W. J., & Co.
Jakson, J., & Co.
Ransom, W., & Son
Stevenson & Howell

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Blyton, Astley & Co.
Brooks, T. (solid)
Burgoyne, Burbidges & Co
Burroughs, Wellcoms & Co.
Bush, W. & J., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Eva, Sons & Co.
Ewen, J. & Sons | Farina, J. M.
Hovenden & Sons
Kemp & Son
Lanoline | Mulhens, F.
Lynn, J. H., & Co.
Newbery, F., & Sons (Berdoe
Pears, A. & F., Lim.
Price's Patent Candle Co
Sharp Bros. Soap & Perfumery Co., Lim.
Sozio & Andrioli
Tidman & Son | Treatt, E. C.
Truefitt, H. P., Lim.
Van Oppen & Co.
Warrick Bros.
West, T. (Okell's Mons)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcoms & Co.
Newbery, F., & Sons (Inglulvin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.
Warner & Co. (Inglinvin)

PEROX. OF HYDR.
May & Baker, Lim.
Robbins & Co. | Tyrer, T., & Co.
Sanitas Co., Lim.

PETROLEUM
Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
Hatrick & Co., Lim. ("Lucilline")
Snowdon, Sons. & Co. (Jelly)

PETROL'M JELLY
Rigby, Ralph & Co.

PHARM. PREPS.
Allen & Hanburys
Antitoxine | Armour & Co.
Balss Bros.
Barron, Harvsys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohns
Boulton, J., & Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Glee Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Lactophenin
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Martindale, W.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim
Parke, Davis & Co.
Potter & Clarke
Richardson, John, & Co. (Leicester) & Co. [cester), Lim.
Roberts & Co.
Smith, T. & H., & Co.
Squire & Sons
Stevenson, H. E., & Co.
Sutton, W., & Co.
Symes & Co. | Tyrer, T. & Co.
Terrol Co.
Warner, H. H., & Co., Lim.
White, Alfred, & Sons
Woolley, Sons & Co.
Wyeth, Jno., & Bro.
Zimmermann, A. & M.

PHOTOGRAPHIC
Ars & Co. | Barclay & Sons, Lim
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcoms & Co.
Darton, F., & Co.
Eastman Photo Materials Co.
Evans, Sons & Co. [Lim.
Fordham, W. B., & Sons, Lim.
Howards & Sons (Chemicals)
Kombi Camera
Raphael, J., & Co.
Thomas, R. W., & Co., Lim
Thornton-Pickard Co.
Tyrer, T., & Co.
Vérel, F. W., & Co.
White, Alfred, & Sons
Zimmermann & Co.

PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer

PILLS, Coated, &c.
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Cox, Arthur H., & Co. (tastless)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son | Holloway's
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Richardson, J., & Co., Lim.
Walker, D. P.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated
Wyeth, J., & Bro. | Wyleye, Lim

PLASTERS
Blyton, Astley & Co.
De St. Dalmas, A.
Ellwood Lee, J. Co.
Evans, Sons & Co.
Johnson & Johnson, Lim.
Leslies, Lim | Mather, W., Lim
Seabury & Johnson

POLISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
"Velutina"

POPPY HEADS
Bleasdale & Co., Lim.

PORCELAIN GDS
Toogood (E.c. Pots, regist.)

POULTRY FOOD
Spratt's Patent, Lim.

PRINTING
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Waine
Molling & Co. | Silverlock, H.
Taylor Bros. | Townsend

QUININE SALTS
Boehringer, C. F., & Sohns
Hockin, Wilson & Co. (Wine)
Howards & Sons
Smith, S., & Co. (Wine)
Zimmermann, A. & M.

RENNET
Duncan, Flockhart & Co.
Tomlinson & Hayward
Warren, A. & J. (Vells)

RUBBER GOODS
Birnbaum, B., & Son, Lim.

SACHETS
Warrick Bros.

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Zimmermann, A. & M

SARSAPARILLA
Wilkinson's

SAUCES, PICKLES
Goodall, Backhouse & Co.
Tyrer, P.

SCHOOLS, &c.
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Liverpool School
London Homœopathic and Medical School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
Newcastle School
Northern College of Pharmacy
North of England School
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
Strand College
The School of Pharmacy
Westminster College

SCIENTIFIC INSTRUMENTS
Darton & Co.

SEEDS
Potter & Clarke

SELTZOGENES
Bratby & Hinchliffe, Lim.
British Syphon Manufactnr-
Evans, Sons & Co. ing Co.
Hockin, Wilson & Co.
May, Roberts & Co.

SEIDLITZ PWDRS
Blyton, Astley & Co.
Hockin, Wilson & Co.
Hora &Co.| May, Roberts&Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)
Truefitt, H. P., Lim.

SHEEP DIP
Fletcher, Bros. & Co.
Jeyes'SanitaryCompoundsCo.
Nsss & Co.
Odams' Chemical Co., Lim.
Quibell Bros.
Sanitas Co., Lim.
Tomlinson & Hayward, Lim.

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co. Howlett, S.
Josephs P.| Treble, G., & Son
Yates, W. S.

SOAP
Aspinall, Edward, Lim.
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Jeyes'SanitaryCompoundsCo.
Lorimer & Co. | Muhlens, F.
Pears, A. & F., Lim.
Sanitas Co , Lim.
Sharp Bros. Soap, &c., Co., Ld.
Sinclair, J., & Son
Tidman & Son
United Alkali Co., Lim.
Wright, Layman & Umney
Yardley & Co.

SODIUM PRXIDE.
Burton, W., & Sons

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

SPONGES
Cresswell Bros. & Schmits
Evans, Sons & Co.
Marks, Henry, & Sons (Lim.)
Peterson, M., & Co.

STAMPS(RUBBER)
Hickisson, J.

STARCH
Barclay & Sons, Lim.
Critchley (Gloss)

STOPPERS
Austin & Co (Sprinklers)
Barnett & Foster
Birmingham Stopper Co.
Melin, C.| Orchard, E. (Poison)
Patent Stopper, Box, and Stamping Co. (Lim.)
Stipendum Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim.

SUGAR OF MILK
Boehm, Fredk.

SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burbidges & Co.
Cocking, J. T.
Ellwood Lee, J., Co.
Esohmann Bros. & Walsh
Ferris & Co. | Harris, J.
Hatrick & Co., Lim.
Haywood, J. H.
Kahnemann & Kranse
Krohne & Sesemann
Lambert, A., & Co.
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Thompson
Oppenheimer, Son & Co.
Powell & Baretow
Queloh, H. C.
Richardson, John, & Co., Lim.
Robinson & Sons
Sanitas Co., Lim.
Schutze, F., & Co.
Statham, H., & Co.
Victoria Rubber Co.
Wood, Vincent

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
British Syphon Co.
Chemists' Aërated & Mineral Waters Association, Lim.
Fordham, W. B., & Sons, Lim.
Idris & Co., Lim.
Kilner Bros. | Melin, C.
Rylands, Dan, Lim.

SYRUPS
Blyton, Astley & Co.
Cooper & Co.
Fletcher, Fletcher & Co.
Idris & Co., Lim. (Liquors)
Stevenson & Howell

TABLETS
Blyton, Astley & Co. (Sulphur)
Caspar & Co., Lim.
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim. (Compressed)

TEA
Burroughs, Wellcome & Co. (Tabloids)
Gt. Tower Street Tea Co.
Pearse & Meeking

THERMOMETERS
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.
Raphael, J., & Co.

TOBACCO & CIGRS
Lusby's Tobacco Co.
Singleton & Cole (Lim.)

TEETHING PADS
Marriott, E., & Co.

TINCTURES
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Moss, John & Co.
Parke, Davis & Co.
Wyleys, Lim.

TOILET
Aspinall, E.
Aspinall, Edward, Lim.
Allen & Hanburys (Chrisma)
Ayrton & Saunders
Bates, F.W. | British Paper Co
Burroughs, Wellcome & Co. (Lanoline)
"Cosmosine"
Dee Oil Co., Lim.
Hockin, Wilson & Co.
Hovenden & Sons
Maw, S., Son & Thompson
Quelch, H. C.
Sanitas Co , Lim.
Sharp Bros. Soap & Perfumery Co., Lim.
Truefitt, H. P., Lim.

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Lutheni & Co.
Maw, S., Son & Thompson
Sutton, O., & Co.
Truefitt, H. P., Lim.
Wilson, A. (Bunter's)
Woods, M. (Areca)

TOOTH PREPS.
Hermanine

TRADE MARKS
Browne, T. B.
Trade Mark Society, Lim.

URETHRANE
Howards & Sons
Vaccine Association (Lymph).

VALUERS &. TRNSF'R AGNTS
Berdoe & Co | Brett, F. J.
Crocker, G. B., & Co.
Fergusson & Osborne
Orridge & Co.
Tomlinson, Thos, & Son

VETERINARY
Bird & Storey | Day & Son
Day, Son & Hewitt
Elliman, Sons & Co.
James, W. H. (Blisters)
Jeyes'SanitaryCompoundsCo
Kemp & Son
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Sanitas Co . Lim.
Spratt's (Dogs)
Walker, Troke & Co.

VACCINATION
Vaccine Association (Lymph)

VANILLA BEANS
Lyon, Henri

VASELINE
Chesebrough Co.

VERMIN KILLER
Steiner, E., & Co.

VINEGAR
Champion & Co., Lim.
Grimble & Co.

VINOLIA Superfitt'd
Blondeau & Cie.

WHOLSLE & EXPT DRUGGISTS
Allen & Hanburys
Allen, S., & Son | Bass Bros.
Barron, Harveye & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Fassett & Johnson
Ferris & Co. | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Kemp, Wm. & Son
Lloyd, T. Howard, & Co
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackay, Mackay & Co.
Potter & Clarke
Raimes & Co.
Raimes, Clark & Co.
Richardson, J., & Co., Lim.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Symes & Co.
Taylor & Colledge
Walker, Troke & Co.
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS
Armbrecht, Nelson & Co. (Cocoa)
Burroughs, J.
Coleman & Co., Lim.
Dowden & Co., Lim.
Durrant & Co.
French Hygienic Socy. (Cocoa)
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hirst, Brooke & Hirst, Lim.
Lorimer & Co.
Millar, A., & Co. (Oranges)
Phillips, G., & Co. | Robinson, B.
Smith, S., & Co. (Orange)
Warren, A. & J.
Wright, Layman & Umney

HAND CAMERA

50/-

50/-

FIFTY SHILLING HAND CAMERA

TAKES TWELVE QUARTER PLATES, which are brought in succession in front of the lens by merely pressing a knob, at the same time registering the number of the exposed plate.

HAS TWO VIEW FINDERS, in the usual positions.

IS FITTED WITH A THOROUGHLY GOOD FIXED FOCUS LENS, having an iris diaphragm. By simply turning a button, time or instantaneous exposures can be made at the will of the operator.

IS MOROCCO BOUND, and measures 8 by 6¾ by 4 inches, and weighs 3 lbs.

Dealers' discount on one, 20 per cent.; not less than three, 25 per cent.

ORDERS EXECUTED IN ROTATION.

BARCLAY & SONS, Ltd., 95 Farringdon Street, E C.

Armour's LABORATORY PRODUCTS.

PEPSIN.

3 000 test six hours.
Guaranteed five times B.P. strength.
(a) INSOLUBLE POWDER (non-hygroscopic).
(b) GRANULAR (soluble and non-hygroscopic).
(c) POWDERED GRANULAR (do. do.).
(d) SCALE (do. do.).

GLYCEROLE PEPSIN.

GLYCEROLE PANCREATIN.

ESSENCE PEPSIN.

NUTRIENT WINE OF BEEF PEPTONE.

TABLETS OF PURE PEPSIN.

3 GRAINS EACH.
In Flat Bottles for the Pocket.

LACTATED PEPSIN.

A Perfect Combination of the Digestive Ferments.

CHEMISTS

desirous of cultivating business with Medical Men should take advantage of the facilities ARMOUR & CO. offer.

Full details on application.

PEPTONISING TABLETS.

PURE PANCREATIN .. .. 2½ grains.
SODIUM BI-CARBONATE .. 8 ,,
Recipes furnished for Pre-digesting Milk and other Foods.

BEEF PEPTONE. Paste.

BEEF PEPTONE. Powder.

OX GALL. Inspissated.

15 volumes = 100 volumes fresh Ox Gall.

OX GALL. Desiccated.

DESICCATED BLOOD.

PURE POWDERED BEEF.

DESICCATED THYROIDS.

THYROID TABLETS.

EXTRACT OF BEEF.

For manufacturing purposes.

VIGORAL. A Real Beef Food.

ARMOUR'S FORMULARY, Containing many valuable Recipes, the use of which is free to all Pharmacists, will be sent gratis on application.

3,000 Test 5 times B.P.

ARMOUR'S STANDARD PEPSIN.

Armour & Co. guarantee their Standard Pepsin to answer the new U.S.P. test, and to be 5 times the strength of Pepsin B.P.

CAUTION.—This guarantee of strength only applies to original bottles (1-oz., 4-oz., 8-oz., and 1-lb.), bearing the regular Armour Label—and the Shield Trade Mark as here shown.

POWDERED PEPSIN, SCALE PEPSIN, OR GRANULAR PEPSIN.

TESTING SAMPLES FREE.

CONCERNING HOSPITALITY AND GOOD COOKING.

Special leaflets on the above subject advertising Armour's Extract of Beef, and printed with Customer's name and address, sent free.

ARMOUR & CO.
59 TOOLEY STREET.

"Lanoline" Products

FOR THE SKIN AND HAIR.

"Lanoline." A perfected preparation of the pure cholesterine fat of lamb's wool. It is well known to the medical profession that this fat is similar to the fat of the human skin and hair; "Lanoline" is therefore the natural nutrient for invigorating and restoring their normal health and beauty. Unlike ordinary fats which rapidly decompose and turn rancid, "Lanoline" never becomes even tainted with rancidity; consequently ointments and all other preparations having "Lanoline" for their basis do not irritate the skin or act detrimentally upon it, as is the case with ointments made with ordinary fats. Ointments of all kinds are more quickly absorbed when prepared with "Lanoline." All the following products contain "Lanoline":—

Physicians can confidently advise their patients to use the "Lanoline" Toilet preparations. "Lanoline" supplied at 2/8 per lb.

Toilet "Lanoline." A delicately perfumed Cream, natural to the human skin; is quickly absorbed. Softens and nourishes the skin, rendering it clear, elastic, and healthy, and prevents wrinkles, roughness, and redness. Especially useful for sunburn, chapped lips and hands, and for irritation, abrasions, and eruptions of the skin.

Toilet "Lanoline" is a delightful application after shaving.

Toilet "Lanoline" supplied in collapsable tubes at 4/6 and 9/- per dozen. Retail, 6*d.* and 1/-

"Lanoline" Toilet Soap thoroughly cleanses, softens, and nourishes the skin. The free "Lanoline" in "Lanoline" Toilet Soap replaces any fat which may be removed.

Ordinary toilet soaps contain an excess of alkali which extracts a certain amount of natural fat, causing the skin to become dry, harsh, and liable to crack. Supplied at 4/6 and 9/- per dozen tablets. Retail 6*d.* and 1/-

"Lanoline" Pomade is a natural nutrient for the hair; it cleanses the scalp from dandruff, prevents premature baldness; renders the hair soft, and glossy, and stimulates its growth.

Supplied in 2-oz. pots at 14/- per dozen. Retail 1/6 each.

"Lanoline" Cold Cream. A pure emollient and soothing agent for the skin; prevents and remedies roughness, chapping, red and tender skin; a valuable safeguard against wrinkles.

Supplied in 2-oz. pots at 14/- per dozen. Retail 1/6 each.

Burroughs, Wellcome & Co., Snow Hill Buildings, LONDON, E.C.

MELBOURNE:—456 Collins Street West.

Constitutional Treatment by Kepler Malt Extract as a Food Medicine.

The preparation of concentrated extracts of vegetable products is always a most delicate operation on account of the danger, ever present, of destroying an unstable active principle during the process, or by partial decomposition of other alterable constituents, imparting an undesirable character, as to odour, flavour, or appearance, to the finished product. The Kepler method of preparing malt is just one of these processes, and is the outcome of a very long and varied experience in the preparation of the Extracts of Malt, and thorough appreciation of the difficulties in the way of producing a sound, reliable, and uniform extract.

Advantages of the Kepler process.

The Kepler process is one which secures the fullest possible percentage of those constituents of Barley Malt to which authorities attribute chiefly the nutritive influence of a well-made Extract of Malt—viz., diastase, the amylolytic agent and digestant; soluble albuminoids and soluble phosphates; and carbo-hydrates (a group of dextrins associated with maltose). It is asserted that the dextrins have a special function in this connection, that of increasing the secretion of Pepsin, and thus adding materially to the digestive powers of the gastric process, and this is a matter of great moment in the constitutional treatment of disease by what may be considered as food-medicines. To keep the digestive process in full activity is to maintain the general economy in the fittest state to ward off disease or to defend it in attack; and this is the *rôle* which the Kepler Extract of Malt fills so satisfactorily and the reason why it is so largely prescribed.

Chemical constitution.

In making comparative examinations of different specimens of Malt Extract, experts usually pay special attention to the following points:—Colour and consistency, odour and flavour, percentage of water, acidity and iodine absorption, diastasic activity, saccharine constituents (maltose and dextrins), and inorganic constituents (soluble phosphates). Inferior preparations generally show but a very small percentage of the more important constituents. The uniform excellence of the Kepler Malt Extract is generally admitted among those technically well qualified to judge; so well thought of indeed is it that its very characteristics have been incorporated into a proposed pharmacopœial standard. The many inferior imitations to be found on the market make it almost necessary to have some sort of standard in order that the public may be protected. The following may be taken as a basis of an official criterion, to each phase of which the Kepler Extract of Malt will be found to answer fully:—

Points for comparison.

"A thick, pale brown syrup of a pleasant malty flavour and odour, free from any musty character, and soluble in water with slight opalescence. 100 grs. dried carefully below 212° F. (100° C.) do not weigh less than 70 grains. 10 grains of arrowroot or potato starch made into a mucilage with 1,000 grain measures of water and intimately mixed with 10 grains Extract diluted with 200 gr. measures of water do not give any blue coloration with one drop of volumetric solution of Iodine after digestion for fifteen minutes at 104°—170° F. (40°—42° C.) 200 grs. incinerated do not leave more than 3 grs. of a white residue, soluble in dilute hydrochloric acid, the solution giving a copious precipitate with magnesium chloride and ammonia."

Proposed Pharmacopœial Test.

The many and varied pathological conditions in which the Kepler Malt Extract may be employed as a food, and the marked benefit obtained by its use, account easily for its wide popularity. Possibly when the relationship between the disorders of the digestive organs and the causative influences of disease are more clearly understood, there will be a still wider field of usefulness for this important food-digestant. The opinion of the leading medical journals on this preparation as a food-medicine will well bear repetition.

The British Medical Journal reported as follows:—

"This (the Kepler) Improved Malt Extract has now been under trial for some time, and is very favourably spoken of by physicians, both in respect to its nutritive and digestive properties and as being of very agreeable flavour. It is concentrated in vacuo, and, being prepared at a very low temperature, its qualities are not deteriorated nor is its flavour spoiled in the preparation. We can recommend the Kepler Malt Extract as being of very high quality indeed."

Dicta of the Medical Press.

The Lancet reported upon the Kepler Malt Extract as follows:—"It is the best known, and, in this country, the largest used extract of Malt. It is as distinct an advance in therapeutics as was the introduction of cod liver oil. It is one of the best nutritive and digestive agents for chronic dyspepsia, and is undoubtedly useful in consumption and other wasting diseases."

The following may be quoted as some of the reasons why the Kepler Extract of Malt is so largely prescribed:—Firstly.—Because it is made from the choicest barley only. Secondly.—Because barley contains more choice ingredients obtainable by malting than any other grain. Thirdly.—Because no grain malts like barley. Fourthly.—Because the Kepler Extract is prepared at every stage by the most improved and scientific processes. Fifthly.—Because nothing is wasted, and the digestive, nutritive, and alterative principles are secured. Sixthly.—Because nothing insoluble and indigestible is retained. Seventhly.—Because in taste it is as delicious as honey. Eighthly.—Because in the system none of it is lost, and it is all easily absorbed. Ninthly.—Because there is no such agreeable substitute for cod-liver oil.

Several reasons why it is so popular.

The Kepler Extract of Malt may be advantageously used to sweeten coffee, hominy, rice, corn-flour, gruels, porridge, &c., and is an invaluable adjunct to peptonised milk for infants and invalids. Spread on their bread children like it extremely and thrive upon it. Added to peptonised milk and eggs well beaten and then stirred up with a little brandy, the Kepler Extract of Malt proves an excellent roborant.

Both a sweetening agent and a digestant.

A dessertspoonful of it added to a plate of warm gruel is quite sufficient to digest the starch. When cow's milk is given with a little Kepler Extract it does not curdle and disagree, as is so often the case. Many reports have been made by physicians showing that infants fed on milk so prepared progressed favourably when nothing else agreed.

The Kepler Extract possesses remarkable emollient properties. It also acts as a natural regulator of the bowels, and is useful in small doses in diarrhœa and catarrh of the bowels, as it is readily assimilated when other foods are rejected. In large doses it is an efficient aperient in constipation.

The Kepler Extract of Malt is supplied to the trade in two sizes, at 20*s.* and 36*s.* per dozen.

Burroughs, Wellcome & Co.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Cable and Telegraphic Address—"BURCOME LONDON."

A New Dusting Powder.

ITS QUALITIES AND CHARACTERISTICS.

ITS USE IN SURGERY.

A natural substance.

EMOL-KELEET is a purified natural, emollient, absorbent dusting-powder, of impalpable texture, as soft as down to the touch. It in no way resembles the ordinary and unstable compound astringent or starchy absorbent powders.

Distinct from Fuller's Earth.

Chemically, Emol-Keleet may be said to be closely allied to superior qualities of Fuller's Earth, yet it is quite distinct from the usual varieties of that substance, in that it contains a considerable percentage of Steatite (known commonly as soap stone) as well as of Silica, Alumina, traces of Calcium Salts, and an appreciable trace of Ferrous Oxide.

The delicate flesh-pink tone of Emol-Keleet—one of its much-admired characteristics—is due to the presence of Ferrous Oxide, while its soft, silky feel is largely occasioned by the presence of Steatite.

Has been carefully investigated.

Emol-Keleet, though comparatively new to the medical profession, has been known for some little time to a limited circle, and has been the subject of investigation by competent hands, both chemico-technico-logically and therapeutically, but it was not brought specially to the attention of the profession until the meeting of the British Medical Association at Newcastle-on-Tyne in 1893, when an exceedingly interesting paper was read, during the session of the Dermatological section, by the President, Dr. Allan Jamieson, of Edinburgh. The interest aroused by the therapeutic notes given in his paper by this distinguished authority on skin diseases brought Emol-Keleet prominently into view, and a brief recapitulation of the points of the paper referred to may be useful.

Completely impalpable.

It was shown that, *as dusting powder*, Emol-Keleet, a perfectly innocuous and inoffensive material, is therapeutically superior to any previously known. When placed upon the tongue—one of the simplest and yet most severe tests as to utter impalpability which can be applied to a powdered substance—there was an entire absence of any sensation of grittiness.

Has a softening influence upon water.

It was noticed also, as a remarkable property of this powder, that when a small quantity, say a teaspoonful or so, was added to a basinful of hard water—such as one frequently meets within limestone areas—it effected an immediate softening influence. Used in this manner with warm water, Emol-Keleet acts as a natural soap, cleansing the skin thoroughly, and at the same time leaving it soft and smooth.

Removes horny accretions.

The learned president pointed out as evidence of the activity and effect of this compound that the workmen engaged in its purification found that their previously horny palms became so much softened by continued contact with it that they could not use their hands for rough work without incurring severe friction. This fact led Dr. Jamieson to try the effect of Emol-Keleet upon horny accretions encountered in some states of keratosis of the palms and soles. When mixed with water to the consistence of a paste, and painted on pretty thickly—evaporation being prevented by covering the whole area with oiled silk, gutta-percha, or other impervious tissue—it was found that the epidermal masses became softened and loosened, and could actually be peeled off painlessly, eventually leaving the part so treated soft, smooth, and of a natural pinkish hue. In view of this experience, it is probable that Emol-Keleet will have a very wide sphere of usefulness in the treatment of many skin affections, both local and constitutional, for it possesses many qualities which will be highly appreciated by dermatologists.

Has a very wide sphere of usefulness.

Relieves skin irritation.

Used as an ordinary dusting powder, it was found to possess anti-pruritic properties and relieved very markedly the itching of the skin now and then complained of in urticaria or during the eruptive period of measles. The absorbent qualities of Emol-Keleet, with its mild astringent tendency, stamp it as a perfectly harmless and absolutely unequalled dusting powder.

Most useful in Dermatology.

In moist or weeping conditions of the epidermis, such as one encounters so often in eczematous or erythematous affections, the application of Emol-Keleet is followed by beneficial effect. From the dermatologist's point of view Emol-Keleet is a most useful addition to the list of remedial agents used in the treatment of cutaneous diseases. During the June, 1894, vaccination in Edinburgh, it was found that Emol-Keleet, on being applied to the part inoculated, at once, by its soothing and emollient influence, allayed any irritation present.

Noteworthy testimony.

A correspondent, practising in the North of Scotland, writes:—"Within the last fortnight I came across a very severe case of eczema infantiles of the face, head, and other parts of the body. After trying some other remedies with doubtful effect, I bethought me of your 'Emol-Keleet,' and gave some to the mother to use as directed. Its effect has been most gratifying to myself and highly beneficial to the little sufferer, who is only seven months old."

Further evidence.

As further evidence of the utility of the new product we quote the following extract from a letter from an eminent surgeon:—"I beg to state that since August 30th, 1894, I used 'Emol-Keleet' to a big and sluggish ulcer on a man's arm with better results than I had previously obtained from dressings. The ulcer closed up rapidly after commencing with 'Emol-Keleet,' and it is now practically healed up. It held on a stubborn course for about four months, but, being due to blood poisoning, I was not surprised; yet I firmly believe that if I had had the 'Emol-Keleet' earlier the ulcer would not have been so sluggish in healing."

Still further evidence.

An infirmary house surgeon writes:—"I have used 'Emol-Keleet' in a case of acute irritation and rawing of the skin from bilious secretion through a fistulous opening. Everything I could think of having failed, I tried the powder, and it has acted splendidly, and has been very comforting to my patient."

Supplied to the Trade in boxes at 8/6 per dozen.

BURROUGHS, WELLCOME & Co.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Cable and Telegraphic Address "BURCOME, LONDON."

"HAZELINE" CREAM OINTMENT.

So largely has "Hazeline" Cream been used as an emollient, astringent, and soothing agent upon the mucous membrane and anal surface, that on the recommendation of competent authorities a special form of vulcanite nozzle has been made to fit the collapsable tubes in which "Hazeline" Cream is supplied. This contrivance is very highly appreciated for self-application, the vulcanite nozzle being bent to a convenient angle to facilitate the safe and easy application of the Cream. In wintry weather, all exposed surfaces of the skin and all parts liable to attack by biting winds and sharp frost, may well be occasionally anointed with a little "Hazeline" Cream. Those who have experienced its protective and emollient qualities speak very highly of it in this connection. In cold weather much may be done to keep the skin in a comfortable and healthy condition by rubbing a little over the exposed surfaces once or twice a week, and in cases where the skin has become cracked and broken a nightly use of this preparation will do much to assist the healing process. The dried, parched-up appearance of the face after exposure to a cutting wind may easily be removed by a slight application of "Hazeline" Cream.

"Hazeline" Cream supplied to the Trade in Collapsable Tubes at 4/6 and 8/6 per doz., and in Glass Pots at 8/6 per doz. Vulcanite Nozzles, 12/- per doz.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Cable and Telegraphic Address—"BURCOME, LONDON."

PERFUMES

(FINEST TRIPLE).

White Rose
" Violet
" Heliotrope
" Hyacinth
Wallflower

IN BULK

Also Tastefully put up for RETAIL SALE in 1, 2, 4 and 8 ounce Globe-stoppered Bottles, and 1 and 2 ounce Bottles, fitted with patent metallic sprinklers.

Gardenia
Mignonette
Clove Pink
Lily of the Valley
Honeysuckle

SAMPLES AND PRICES ON APPLICATION TO

Wright, Layman & Umney

48 & 50 SOUTHWARK STREET, LONDON, [S.E.]

Telegrams—"UMNEY LONDON." Telephone 4608.

THE CHEMIST AND DRUGGIST

ESTABLISHED 1858.

CHIEF OFFICES: 42 CANNON STREET, LONDON, E.C.
BRANCH OFFICES: 231 ELIZABETH STREET, MELBOURNE, VICTORIA, AND EMPIRE CHAMBERS, YORK STREET, SYDNEY, N.S.W.

A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10s. per year payable in advance, including a copy of the DIARY next published, and postage to any country in the world. Single copies, 4d. each. Cheques and Postal Orders should be made payable to "EDWARD HALSE," and crossed "MARTIN'S BANK (LIMITED)."

CONTENTS: Vol. XLVI. No. 20.

	PAGE
Business Changes	684
Constructive Criticism of the British Pharmacopœia:— IX. Micrographic Pharmacognosy. By W. Kirkby	693
Corner for Students	674
Correspondence	700
Counter Practice	681
Deaths	686
Deeds of Arrangement	686
Editorial Comments:— Pharmaceutical Council Election	688
Chemists' Co-operative Society (Limited)	689
Digestive Ferments	690
Notes	690
English News	675
Fairchild Banquet	692
Foreign and Colonial News	680
French News	679
Gazette	682
Imperial Institute Photography	683
Irish News	677
Legal Reports	683
London Drug Statistics	704
Marriages	686
New Books	686
New Companies and Company News	685
Next Week	704
Oleate of Ammonia as a Cleansing-agent	695
Personalities	687
Scientific Notes	695
Scotch News	678
Trade Notes	684
Trade Reports	696

POSTCARD COMPETITION.

WE remind subscribers and their employés, or members of their families, of the competition for this month. A sample verse will be found on the first page of our last issue. This we wish to get imitations of, the rhymesters confining themselves to pharmaceutical subjects. At least one guinea will be awarded as a prize, under the conditions stated in previous issues.

AMERICAN NUMBER.

THE next issue of THE CHEMIST AND DRUGGIST will have an extra circulation to buyers of druggists' goods who are in business in Canada, the United States, and the West Indian Islands. We have a good list of firms whose orders are worth having, and we believe that our next week's number will, to use a colloquialism, fetch them. Apart from some special features, the issue will contain full reports of the Pharmaceutical Society's annual meeting and dinner. The advantages to business-houses of advertising in this issue are established by past experience, but we may say that there is no European trade-journal so well known and respected on the American Continent as THE CHEMIST AND DRUGGIST, and advertisements contained in it are taken to be as reliable and profitable as other sections of the journal. The publisher will be putting his sheets to press on Tuesday, so that those who desire to have advertisements in the issue should address him immediately.

Summary.

THE solitary leper in the United Kingdom has died (p. 677).

THE Belfast mineral-water trade is on the increase (p. 677).

BICARBONATE OF SODA may be sold for Vichy salt—so a French Court has decided (p. 679).

THE Pasteur Institute is offering diphtheria serum to medical men in this country (p. 676).

THE bottling of mineral waters in France has been brought under the notice of the Chamber of Deputies by M. Chassaing (p. 679).

A BATH chemist's apprentice has been found dead at the door of the house. He had fallen against it and fractured his skull (p. 676).

MRS. ORME, of Atherstone, has been fined under the Arsenic Act because her apprentice sold 2½ lbs. of arsenic uncoloured (p. 683).

MESSRS. S. MAW, SON & THOMPSON make an important statement in regard to a Scotch drug company using the name "Maw" (p. 700).

IMITATION of Pears' unscented-soap label has brought a Sydney soapmaker into trouble. He has to pay 465*l.* and apologise widely (p. 680).

WE give particulars of the Board of Trade Committee's report on the new standard of light. Mr. Dibdin's ten-candle pentane burner is adopted (p. 677).

A PHOTOGRAPHIC exhibition has been opened at the Imperial Institute. It is fairly good, pictures and mechanical apparatus being the chief features (p. 682).

ULVERSTON and Belfast take the Students' prizes this month. The exercise was an easy one, nevertheless twenty-one of the competitors failed to detect the oxalic radicle (p. 674).

BRITISH MEDICAL ASSOCIATION exhibitors met again this week, when some strong things were said about the increased charge for space. A protesting resolution was proposed and withdrawn, and a committee appointed (p. 677).

WE give a forecast of the Pharmaceutical Council election based upon our postcard competition, with the object of assisting voters (p. 688). There are some letters in our correspondence columns about certain candidates (p. 701).

CORRESPONDENCE between the Chemists' Co operative Society and ourselves of a rather emphatic character on their part is published on p. 689 It was not decided whether the company would go to allotment when this page went to press.

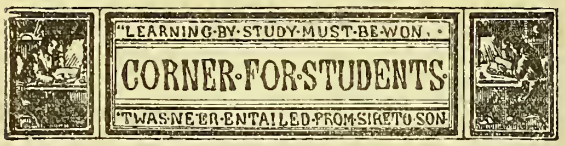
MR. S. W. FAIRCHILD, President of the New York College of Pharmacy, was entertained to dinner in the Holborn Restaurant on Tuesday evening, when a distinguished company was present. We print notes of the proceedings and Mr. Fairchild's portrait (p. 692).

A CORRESPONDENT says that the now historical third paper of the Dunstan-Carr series is leading people off the scent in the aconitine matter. He quotes a sentence from the second paper which can prove or disprove Professor Dunstan's *bona fides* in respect to Freund's discovery (p. 700)

MR. KIRKBY, in his article on micrographic pharmacognosy, shows the necessity for more precise definitions in the B.P. characters and tests of vegetable drugs, and describes how it would be possible to introduce useful descriptions of the micrographic characters (p. 693).

THE proprietor of the deadly fly-trap is suing Bleasdale (Limited) for damages in respect to birdlime supplied, which he alleges to have been the cause of deterioration of his speciality. The case has not yet finished; but the defence is that the birdlime was according to sample, and that it was stuff mixed with it by the plaintiff which caused the deterioration (p. 683)

b



Conducted by Richard J. Moss, F.C.S., F.I.C.

Qualitative Analysis.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by *a stamped and addressed envelope*, not a stamp merely) will be received up to Wednesday, May 22, and the samples will be forwarded immediately.

Students' reports will be received up to Saturday, June 1. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

Reports.

The subject of the last exercise was a mixture of 3 parts of sodium chloride, 1 part of potassium ferrocyanide, and 1 part of ammonium oxalate. The calculated composition of 100 parts was :—

K	7·39
Na	23·99
NH_4	4·50
Cl	36·01
$Fe(CN)_6$	10·05
C_2O_4	11·00
H_2O	7·06
	100·00

Traces of calcium and sulphuric acid were present as impurities.

Samples of the powder were sent to 82 applicants, and 49 reports of analyses were received. The failures in the detection of the several constituents were :—Oxalic radicle 21, ammonium 6, chlorine 5, ferrocyanogen 2, potassium 1, sodium 0.

The usual preliminary examination of the powder gave no decided indication of the presence of an oxalate. The production of carbon monoxide on heating the powder was scarcely perceptible, with the small quantity available for the experiment; and though carbon dioxide was more easily detected, it could not have been attributed solely to an oxalate, as the ferrocyanide, the presence of which was so obvious, would account for the evolution of the gas. Then, again, the evolution of carbon dioxide on warming the powder with sulphuric acid and manganese dioxide was masked by the evolution of chlorine from the sodium chloride present in the powder. It was not, however, on account of any difficulty in the preliminary examination that the oxalate escaped detection: the common source of error was the omission to observe the effect of a soluble calcium salt on the aqueous solution of the powder. Calcium chloride is a valuable reagent in the detection of certain acids; it serves for the precipitation of fluorides, phosphates, oxalates, tartrates, or citrates from their neutral or alkaline solutions. The aqueous solution of the sulphate is sometimes a better reagent to employ, because there is no risk of its producing a precipitate of calcium sulphate, which is often mistaken for one of the more insoluble salts. The addition of this reagent or the chloride to the aqueous solution of the powder caused an abundant precipitate, and on roughly separating this precipitate, and treating it with acetic acid, it was found to be insoluble. This was almost sufficient proof that an oxalate was present; the behaviour of the precipitate on ignition showed conclusively that it consisted of calcium oxalate.

Prizes.

The First Prize for the best analysis has been awarded to Walton Porter care of Executors of H. W. Mackereth pharmaceutical chemist, Ulverston.

The Second Prize has been awarded to Henry Burns, Carlisle Circus, Belfast.

Marks Awarded for Analyses.

Walton Porter (1st prize)	100	Stow	86
Henry Burns (2nd prize)	99	H. Read	83
Herbert Bridges	98	Laurel	83
Campaulate	97	Nitrate	83
F. F. A. Tunbridge	97	H. S.	82
Trichogyne	93	Dewsburian	82
Vulcan	96	Narcissus	81
Demosthenes	95	·001	80
Fungor	95	Vindex	79
Progrediens	94	Cough	78
Ammonium Isolator	93	E. A. E. A. N.	77
Kalistos	93	Rumex	77
W. G. S.	93	Obtuse	76
Canny Scot	93	Little Leisure	75
Hopeful	92	C. Huxtable	74
Forceps	92	Upland	73
T. M.	92	W. E. G.	72
Lavandula	92	J. F. S.	70
S. D.	91	T. Cook	68
Erica	91	T. H. Thomas	66
G. Jarvie	91	D. W. C.	65
Ichthyol	90	Alchemy	62
Glaserite	88	E. Langham	60
Borrett	87	Helium	55
Acetate	86		

To Correspondents.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

Note.—All communications should include the names and addresses of the writers.

Progrediens.—The arrangement of your report would be improved if you devoted a column to each of the groups. When members of several groups are present the method employed for their separation is most clearly seen when there is a separate column ruled off for each precipitate and filtrate.

Ichthyol.—The very characteristic odour of sulphur dioxide was not perceived when the powder was treated with an acid. You might have inferred from the slight turbidity of the aqueous solution that only a slight trace of calcium could be present; it would have appeared in the insoluble form of oxalate.

Glaserite.—The solution of the powder which failed to give a precipitate with calcium chloride must have been acid. The original aqueous solution gave a copious precipitate.

Borrett.—Boiling with sodium carbonate, preparatory to the examination for the acids, was an unnecessary proceeding. There were no heavy metals present that required to be removed.

Acetate.—The process of "putting the solution through the chart," as you describe it, might do if the chart were printed on filter-paper; it would, no doubt, help to clear matters, but you should be more precise in your description of the work performed.

Stow.—You did not consider the possibility of the presence of a salt producing an insoluble calcium compound.

Harold Read.—The alkalinity of the powder was scarcely perceptible: a very small quantity of borax would have made it distinctly alkaline. When copper sulphate was added to the aqueous solution, and the copper ferrocyanide filtered off, the filtrate, on acidulation with nitric acid, gave a

ppious precipitate with silver nitrate. You seem to have observed only a ight opalescence.

Laurel.—The turbidity of the aqueous solution was not removed by lding acetic acid; but it was removed by hydrochloric acid. It was therefore due to calcium oxalate, not carbonate.

Nitrate.—If the darkening of colour which took place when the powder as heated had been due to a citrate, you should have perceived an odour ke that of burnt sugar. The change of colour was the result of the decomposition of the ferrocyanide—iron carbide and carbon being produced.

H. S.—Potassium ferrocyanide is readily decomposed. The blue precipitates you observed were due to iron salts, which were products of the decomposition of the ferrocyanide.

Dewsburian.—Your examination for the acids was very superficial. See emarks to "Borrett."

Narcissus.—The test for ammonium, performed precisely as you describe , gave very marked results—the red litmus-paper turned blue immediately; perhaps you used too much water. The object is to cause an evolution of gaseous ammonia, and, as the gas is very soluble in water, it is an lvantage to have as little water present as possible.

·001.—The solution of the powder which failed to give a precipitate with lcium chloride must have been acid. You must have been mistaken in pposing that it was neutral.

Vindex.—The precipitate you obtained with barium chloride consisted of rium ferrocyanide and oxalate, with a trace of sulphate. The greater rt of it dissolved in dilut hydrochloric acid.

Cough.—Aluminium and a phosphate could not have been present together in a powder soluble in water.

E. A. E. A. N.—You left the presence or absence of hydrochloric acid ndecided. It was possible to separate the ferrocyanogen in combination ith copper or iron, and to identify the chlorine in the filtrate.

Little Leisure.—Your test for ammonium was a very crude one. You ould have mixed a little of the powder in a watch-glass with dry calcium ydrate or soda lime, then moistened it very slightly, and immediately overed the watch-glass with another glass having a piece of slightly-oistened red litmus-paper adhering to it. Operating in this way upon milligrammes of the powder—about one-three-hundredth part of the uantity sent to you—ammonia was at once detected.

C. Huxtable.—The blue precipitate you obtained with ferric chloride as evidence of the presence of a ferrocyanide, not of a cyanide.

Upland.—Without sufficient evidence you concluded that the silver precipitate consisted of cyanide. The original powder, heated with sulphuric cid and manganese dioxide, evolved chlorine.

W. E. G.—If you ignite a tartrate and observe closely what takes place, on will find that carbonisation is not the only effect perceptible to the enses.

J. F. S.—You did not explain how it was that a phosphate and a magnesium salt occurred in a mixture of salts readily soluble in water.

T. Cook.—See remarks to "Vindex." It will repay you to prepare more f the mixture, and to repeat the examination for the acids.

T. H. Thomas.—See remarks to "Little Leisure."

D. W. C.—The trace of carbon dioxide you detected was a product of the ecomposition of the oxalate.

E. Langham.—You applied a few tests to the powder, but you did not nake a systematic analysis. You could not have been certain that the ubstances you detected were the only constituents of the mixture.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

The Wholesale Druggist and the Street.

Joseph C. Williamson, described as a wholesale druggist, was summoned at the Oldham Police Court last week on a charge of street-obstruction. A constable stated that the defendant had kept eleven casks of oil on the footpath outside his premises from a Tuesday till a Saturday. The Magistrates' Clerk said he must not turn the public street into a yard. Defendant said he had not been warned. He also raised a technical objection to the summons on the ground that it was made out against himself instead of against the firm for whom he was manager, Messrs. J. Hulme & Co. (Limited). The Bench satisfied his scruples on this point by amending the summons, and then imposed a fine of 5*s*.

The Effects of Toothache on a Civil Engineer.

Francis George Coles, described as a civil engineer, of Ware, went into the shop of Mr. Wm. Giffard Lenfestey, on May 18, and asked for change for a sovereign. Mr. Lenfestey told him he had no change, whereupon Coles caught hold of him and pushed his head through the glass door of the shop. That is what Mr. Lenfestey told the Marlborough Street Magistrate. Coles said he went to get something for a bad toothache, and was provoked by the treatment he received from the prosecutor. He was ordered out of the shop, a scuffle ensued, and by accident the glass was broken. The value of the broken window was 4*l*. 17*s*. 6*d*. Mr. Hannay imposed a fine of 5*l*, or in default a month's imprisonment.

Electric-light Explosions.

In the Bloomsbury County Court, on May 18, Mr. Elton chemist, Endsleigh Gardens and Euston Road, sued the St. Pancras Vestry for 40*l*. for damage to a business-lamp and wall. Plaintiff's case was that the explosion in the Euston Road, caused by the gas coming in contact with an electric spark, blew an iron cover into pieces, and a portion of it smashed his lamp, which cost 2*l*. 3*s*. to repair. The force of the explosion was so great that it severely damaged a wall, which would cost between 30*l*. and 40*l*. to repair. Evidence on the other side was given that the wall was dilapidated, and whatever injury there was was due to other causes. Any *bonâ-fide* damage the Vestry would pay, and subsequently arrange with the gas company, who had denied liability. His Honour, after seeing the place, said in his opinion there was no damage to the wall by the explosion, and all plaintiff was entitled to was the cost of repairing the lamp, 2*l*. 3*s*., and the costs thereon.

Fifty Years' Service.

The staff of Messrs. Charles Southwell & Co., confectioners, Dockhead, S E, have entertained to dinner Mr. Thomas Studley, who for fifty years has been town representative to Mr. Charles Southwell, senior partner of the firm. The dinner was in the Holborn Restaurant. Mr. C. E. Southwell presided, and in the course of the evening, on behalf of his colleagues, presented Mr. Studley with an illuminated address and a fifty-guinea gold watch and chain.

S. M. Burroughs Memorial.

A sum of five guineas has been collected amongst the members of the Chemists' Assistants' Association, and has been handed over to Mr. John Moss, treasurer of the memorial fund.

Alleged Poisonous Baking-powder.

A married woman, named Elizabeth Hardwick, aged 35, died on May 8 from the effects of eating cake which, it was alleged, contained oxalic acid. The evidence taken at the inquest on May 10 went to show that some baking-powder used in making the cake contained oxalic acid. The baking-powder was bought from a grocer. The Coroner adjourned the inquiry for a week.

Carbolic-acid Poisoning.

William Marney, a labourer, committed suicide on Thursday at Llantarnam, Glamorganshire, by taking carbolic acid. A few days previously, whilst suffering from delirium tremens, he had attempted his life by jumping into the Glamorgan Canal at Treforest, and afterwards gashing his throat with a penknife. The carbolic acid proved successful.

A Chemist's Medicine Suspected.

An inquest was opened at Llandowror, near St. Clears, Carmarthenshire, on May 10, touching the death of David Wilkins, who died shortly after taking some medicine which had been prescribed by a local chemist. It was alleged that the chemist had made up the medicine without either seeing the patient or getting instructions from a medical practitioner. He was summoned to attend the inquest, but failed to appear. Mr. Jonas Davies, the Deputy-Coroner

adjourned the inquiry, and directed a subpœna to be served upon the chemist, and also ordered a *post-mortem* examination to be made of the body of the deceased. At the adjourned inquiry held the next day, Mr. M. W. Jenkins, chemist, St. Clears, was called, and stated that twelve months ago he saw the deceased. That was just before witness went to London to pass his examination. Deceased complained of asthma, and asked witness if he could do him any good. He gave deceased some medicine, and the old man afterwards told witness that the medicine did him good. On the previous Tuesday a woman from Llandowror came to witness's shop, and said deceased was suffering from the same complaint as before, and asked for similar medicine. Witness made up a bottle of medicine for a bad cold. Elizabeth Wilkins, granddaughter of deceased, said he took three doses of the medicine, and died on Wednesday evening at 6 o'clock. When she found the old man getting worse she sent for Dr. Jones. He was from home, and did not reach the patient until after his death. Dr. Valentine Jones, who made the *post-mortem* examination with his assistant, Dr. Daunt, said the actual cause of death was inflammation of the right lung. The left lung was very much decayed. He did not think the medicine from the chemist had done any harm; such medicine was generally given for bad colds. Mr. Davies, in summing up, strongly disapproved of the action of the chemist in supplying medicine without seeing the patient. The jury returned a verdict in accordance with the medical evidence.

Brine for Chemicals.

Messrs. Brunner, Mond & Co. have decided to establish a large chemical-works on Teesside, to enable them to transform brine into chemicals direct. It is calculated that these works alone will annually deal with brine equal to 200,000 tons of salt.

The Jacket did not Fit.

At the Dudley County Court last week, Mr. Henry Rowton, chemist and druggist, Hall Street, Dudley, was sued by a mantlemaker, for 24*l.* 11*s* 3*d.*, the value of a sealskin jacket supplied to Mrs. Rowton. The defence was that the article did not fit, and Mrs. Rowton, accompanied by the Judge and the solicitors, went to a private room and fitted the jacket on. On returning to the court, his Honour said the jacket had been ordered on condition that it should fit. It did not fit, and therefore he gave judgment for the defendant.

Quinine is Right in the Isle of Wight.

Mr. Otto Hehner, public analyst to the Isle of Wight County Council, reports that during the past quarter he has analysed eight samples of sulphate of quinine, the whole of which were genuine.

A Cattle-oil Agency.

At the Lewes County Court last week, before Judge Martineau, Messrs. Williamson & Co., chemists and cattle-oil dealers, Great Grimsby, sued Mr. J. S. Reed, of Barcombe, for 2*l.* 18*s*, balance of account. The defence was that the matter was one of agency. The bottles of oil unsold had been returned to plaintiffs, together with a postal order in respect of three that had been disposed of. Judgment was given for defendant, with costs.

The Half-holiday.

The chemists and druggists of Sandy have agreed to close on Thursdays at 4 P.M. Those of Horley agree to close at 2 P.M. each Wednesday.

Chemists' Assistants' Association.

The Council of this Association have elected the following officers:—President, Mr. G. W. Hill; Vice-Presidents, Mr. C. Morley, Mr. G. Roe; Treasurer, Mr. C. J. Strotbcr; Financial Secretary, Mr. R. Melhuish; Literary Secretary, Mr. R. G. Guyer.

Liniment for Sleeping-draught.

An inquest was held on Monday last touching the death of Miss Annie Wittey, aged 35, the village schoolmistress at Alwalton, near Peterborough. Deceased had been unwell, and suffering from rheumatism in the legs and feet. She was in the habit of taking sleeping-draughts, as she was troubled with insomnia. During the Sunday night she took two doses of the sleeping-mixture from a 3 oz. bottle, and afterwards asked her mother for a third draught as she could not sleep, but this was refused her. The bottle was placed upon the drawers, and her mother having rubbed deceased with the liniment left it upon the box by the bedside. Her mother left the room, and shortly afterwards heard her daughter coughing violently, and on again entering the room saw that she had evidently taken a dose of the liniment in mistake for her sleeping-draught. A doctor was sent for, but she died the same morning. The liniment contained belladonna and aconite, and the doctor in the case said he believed the bottle was labelled "Poison" when he sent it out. A verdict of accidental death was returned, the jury adding a rider to the effect that all liniments should be marked "Poison."

The Dead Baby.

Shortly before midnight last Saturday Mrs. Ryley, the wife of a Hull chemist, entered a police-station in that town with a dead baby in her arms. She stated that about an hour previously a married woman named Nelson came into the shop with her baby, which was only a fortnight old, and was, she said, ill. She, too, appeared weak, and when she asked for some castor oil for the child Mrs. Ryley invited her through to the kitchen. The shawl in which the baby was enveloped having been removed, Mrs. Ryley saw its condition was serious, and Mr. Ryley found its pulse was beating very slowly. The mother fainted, and whilst she was being attended to Mrs. Ryley hastened with the child to Dr. Davy's surgery, but when she got there it was found to be dead. Then she crossed over to the police-station to inform the police of the peculiar predicament in which she found herself. Afterwards the mother was brought to the station. The body was taken to a neighbour's house, where Mrs. Nelson was also accommodated.

Fatal Accident to an Apprentice.

The Bath City Coroner held an inquiry on Monday regarding the circumstances attending the death of William Robbins, aged 17, an apprentice with Tylee & Co. Anthony Main, chemist's assistant, who is staying on a visit at 7 Bridge Street, said he knew the deceased as an apprentice there. On Saturday morning witness was descending the stairs, when he heard a thud at the street door, and on going there he found the deceased lying unconscious across the footway, with his head against the door. There was a bruise on the left temple. Witness and his friends did all they could to revive him, but failed. William Robbins, the father of the deceased, who resides at Trowbridge, and Albert Henry Cooper, proprietor of Tylee & Co., 7 Bridge Street, also gave evidence. Dr. T. J. Tabor said he was passing down Bridge Street, and was called in to see the deceased, whom he found quite dead. As the result of a *post-mortem* examination, he found that the blow on the side of the forehead caused concussion of the brain, which proved fatal immediately. A verdict of accidental death was returned.

Is it Labelled "Made in France"?

We cut the following from a Yorkshire paper. It is so curious that we repeat the free advertisement:—

> Medical men are notified by a circular of the French Foreign Office, which M. Lucien Marian desires us to mention, that the Pasteur Institute is in a position to supply the new diphtheria serum regularly. A parcel of five tubes, each containing 20 cubic centimetres, costs 40 centimes, and weighs 350 grammes (about ¾ lb.). Post-office orders to cover price and postage should be made payable to M. Yvon, Pharmacien à l'Institut Pasteur, 18 rue Dutot, Paris. Larger quantities will be forwarded by parcels post.

Notts and Early Closing.

At the meeting of the Nottingham Chemists' Association to be held next Wednesday the Shops (Early-closing) Bill will be discussed. The other business is of a formal character. Mr. Gill is retiring from the secretaryship, and Mr. A. Eberlin is to take his place.

A Pharmaceutical Decoration.

During the visit (May 10 to 14) of the Duke and Duchess of York to Sheffield the town was gaily decorated. The

device adopted by Mr. G. J. Forrest, St. Mary's Road, is worth noting. His shop occupies a prominent corner position near the entrance to "The Farm"—the local residence of the Duke of Norfolk, who entertained the Royal visitors At the corner was fixed a flagstaff, 27 feet long, bearing a 12-foot flag; the front of the shop was neatly festooned in red, blue, and gold, interspersed with smaller flags; and a motto, "Welcome," was worked on blue cloth, bordered with red and rosettes, the letters being formed of gilded poppy-heads, each separately suspended and waving with the wind; also the letters "G" and "M" on scarlet shields, these letters also being formed of gilded poppy-heads. The principal object of the visit was the opening of a new wing of the Sheffield Public Hospital and Dispensary.

The Teaching of Chemistry in London.

The Technical Education Board of the London County Council have appointed a special sub-committee, consisting of Dr. W J Russel, Sir Philip Magnus, Mr. Ludwig Mond, Mr. W. Pearce, Mr. H J. Powell, Professor Ramsay, and Mr. C. M Stuart to inquire into the teaching of chemistry as at present conducted in the day-schools and evening classes throughout London and in important provincial centres The pioneer lectures, inaugurated last year by the London Society for the Extension of University Teaching, for the Technical Education Board of the London County Council, have included courses of ten lectures by Professor V B. Lewes and Mr W. P. Bloxam. Professor Lewes has given the following courses of lectures during the session, with the results appended:—Chemistry of Arts and Manufactures, at Deptford, attendance in all 250; a similar course at Fulham, attendance 700; Air, Fire, and Water, attendance 500.

Pharmaceutical Students at Hexham.

On May 10 a party of students from the North of England School of Pharmacy, Newcastle, accompanied by Mr. George F. Merson, principal of the school, paid a visit to the extensive nurseries at Hexham, belonging to Messrs. Fell & Co. The remainder of the day was spent in botanising in the neighbourhood, the visitors being afterwards entertained to tea by Mr. J. Pattinson Gibson, local secretary of the Pharmaceutical Society of Great Britain.

Chemists at Cricket.

A match was played at Willesden on Saturday last May 11, between the clubs representing the firms of Barron Harveys & Co. and Wright, Layman & Umney, which resulted in a win for the former by 11 runs. For the winners, F. W. Berry put together a useful innings of 15, and Messrs. G. A. Grant and A. Halson were in good form with the ball, the former taking six wickets for 10 runs, performing the "hat trick"; and the latter four wickets for 13 runs. The respective scores were:—B., H. & Co., 40; W., L. & U., 29.

British Medical Association Exhibitors.

A meeting of the intending exhibitors at the forthcoming British Medical Association Museum was held on Wednesday at Upton's Restaurant, Strand. Mr. Rebman, who presided, said that since their last meeting the Museum Committee had been approached by the deputation appointed, and the questions settled upon had been asked, with the result that no reduction in the prices charged for space would be allowed. An increase in the height allowed for display had been granted. No application for space would be considered before June 1, and then all would be gone into without priority. The questions as to division of space, in the event of excess of applications, and as to the non admission of the general public had been agreeably settled. These results did not appear satisfactory to the meeting, and Mr. Blau expressed himself in strong terms at the way exhibitors had been treated by the Museum Committee in the matter of increased charges for space. The charge of 35*s.* per square foot for some parts of the space was preposterous, and he thought they should be able to show the doctors that they would not exhibit unless some concession in regard to price was made. Mr. Rebman explained that the Museum Committee had told the deputation that it was a matter of pounds, shillings, and pence with them, as their expenses were great, and the money must be raised to cover them. This, in fact, was at the root of the increase in the charges. After a prolonged and somewhat heated discussion, it was proposed by Mr. Blau, and seconded by Mr. Kutnow—

> That a firm but respectful protest be addressed to the Museum Committee of the British Medical Association, concerning the exorbitant prices and the system of tendering for certain place in the hall.

This resolution was carried unanimously, but in the subsequent discussion it was pointed out by a gentleman, whose name we did not catch, that the effect of the resolution coming from them (a minority of the exhibitors) might prejudice their interests when the spaces were allotted. This remark evidently appealed to the meeting, and Mr. Blau, at the instance of the Chairman, withdrew his motion, it being the general opinion that the protest should not be made until a greater number of exhibitors had joined the Association. The following gentlemen were then appointed as an executive committee for the purpose of drawing up rules for governing the Association's proceedings:—Messrs. F. J. Rebman, Hickey (Parke, Davis & Co), Mayer (Mayer & Meltzer), A. P Smith (Arthur & Co), J. Shorrock (Bovril, Limited), Longmate (Allen and Hanburys, Limited), A. W. Ball (Burroughs, Wellcome & Co), F W Abbott (Van Abbott & Sons), T. W Down (Down Brothers), M Blau (Hoff's Malt Extract), A. Essinger (Hartman's Wool-wool Company), Weiss (John Weiss & Son), H W. Lane (Armour & Co). The proceedings then terminated.

The New Standard of Light.

A special committee was appointed by the Board of Trade in 1891 on the standard of light adopted in testing the illuminating-power of the gas of the metropolis The committee consisted of Mr. W. J Dibdin (chemist to the London County Council), Dr. Edward Frankland, Mr H. E. Jones (Commercial Gas Company), Mr. George Livesey (South Metropolitan Gas Company), Dr Odling (Chairman of the committee), Mr. C Rose-Innes, Dr. W. J Russell, Mr. G. C. Trewly (Gas Light and Coke Company), and the Gas Referees—Mr. A. Vernon Harcourt, Professor Rücker, and Dr. Pole. Professor V. B Lewes was appointed Secretary to the committee. The committee's report expresses the opinion that the present standard—viz., "sperm candles six to the pound, burning 120 grains in the hour"—is not satisfactory, from various reasons, amongst which are the uncertainty in manufacture, especially of the wicks, and also on account of the conditions under which they are burned, which are practically uncontrollable in several points. They find that Mr. Vernon Harcourt's one-candle pentane air-gas flame represents the average light of one sperm candle, but is too small for actual comparison with the statutory illuminating-power of the gas. They further find that Mr W J Dibdin's ten-candle pentane argand correctly represents the value of ten average candles as compared with Harcourt's one-candle standard, and recommend that Mr. Dibdin's standard be accepted as the legal standard, and that sealed specimens of the burner and carburetter be deposited with the Board of Trade.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Death of the Lisburn Leper

John Evans, the Lisburn leper, died last week. The deceased is believed to have been the only leper in the United Kingdom.

Belfast's Export of Aërated Waters.

The Belfast Harbour Commissioners report that the exports of aërated waters from that port in the first quarter of 1895

amounted to 1,773 tons. In the same period of 1894 it was 1,544 tons.

Peat-dust as a Disinfectant.

A new disinfectant, for which valuable properties are claimed, is about to be manufactured out of peat dust, a commodity at present regarded as of no commercial value. The idea which comes from Holland is favourably received by the Irish Industries Association.

A Pharmaceutical Plum.

A pharmaceutical chemist to the South City Dispensary, at a yearly salary of 125*l.* with residence and allowances, will be appointed by the Dublin Guardians on Tuesday next. The average remuneration for such offices is about 40*l.*

Soda-water Bottles.

At Dublin on Saturday last the Recorder delivered judgment in the case of Thwaites *v.* Shanks, already reported, in which the defendants appealed from the decision of the Police Magistrates, fining them 5*l.* for having used the plaintiff's bottles for their mineral waters. The Recorder, who regretted to see that his suggestion for an agreement had failed, affirmed the decision appealed against, each party to bear their own costs. He hoped the result of this litigation would be the establishment, as in England, of a proper clearance system That seemed the business-like method, and was in the long run for the advantage of the first-class men, whose manufacture was worth a trade-mark to guard it.

Chemists' and Druggists' Society of Ireland.

The committee of this Association met on May 10, at Belfast, the President (Sir James Haslett, J.P.) in the chair Among other business, the committee considered the Shops Early-closing Bill, and resolved that the promoters should be requested to amend the clause exempting pharmaceutical chemists and chemists and druggists from the penalties for supplying medicines after the shop is closed by adding the words "registered druggist" to the sub-section. As this would be the title under which, in the near future, the majority of the trade would be known, the President undertook to write to the Chairman of the Committee now sitting to take evidence. The Juries Bill was also considered, and, as this Bill may be passed and made to apply to Ireland, it was determined that the Society should seek to have chemists and druggists and registered druggists freed from the obligation of serving on juries.

Business Changes.

Mr. Isaac Houston Henry, L.P.S.I., has opened a neat pharmacy in Cookstown, co. Tyrone.

New Mineral-water Makers.

Messrs. Anderson & Co., pharmaceutical chemists, Market Square, Listowel, have commenced to manufacture mineral waters on a wholesale scale. This department is under the management of Mr. Wm. Redpath, L.P.S.I. The firm are exhibitors at the Belfast Exhibition, just opened.

Personal.

Professor Emerson Reynolds gave a lecture on argon and helium in Trinity College, Dublin, last Friday, expressing the opinion that the evidence is distinctly against the view that argon is a modification of nitrogen.

Mr. F. H. Orr, chemist, was awarded a bronze medal in Class VIII. for superior exhibits at the recent exhibition of the Dublin Photographic Society.

An Aluminium Ear.—This information comes to us from Birmingham, *viâ* U.S.A. The latest application of aluminium is one of the most extraordinary to which this versatile metal has yet been put. It is no less than the formation of an artificial ear for a man who had lost one through disease. A model was first taken in wax and then in aluminium, which was tinted and enamelled to harmonise with the complexion. To support the ear adhesion was effected by means of a mastic varnish. The man was thus accommodated at the Queen's Hospital, Birmingham.

Scotch News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

The Half-holiday in Edinburgh.

A few of the Edinburgh chemists have again commenced closing from 2 to 7 P.M. on Wednesdays.

Presentations.

Mr. John Sharp, who for a quarter of a century had a pharmacy at Musselburgh and has now removed to Newcastle-on-Tyne, was last week presented with a handsome oak writing-table, drawing-room clock and ornaments, and a ring for Mrs. Sharp by his Musselburgh friends. The presentation was made by Provost Keir in the Council Chambers, in the presence of a large number of prominent townsmen. The Provost having alluded to Mr. Sharp's valuable services to the town, that gentleman, in acknowledging the gift, spoke of the happy experiences he had had during his residence in the town, and his eleven years' term of office in the Council (six of which he had spent as a Magistrate).

Mr. A. Munro Ross, assistant to Mr. Fraser, chemist, was presented by friends last week with a Gladstone bag and cigar and cigarette case, on the occasion of his leaving Inverness for Aberdeen. A pleasant evening was spent at the Commercial Hotel in honour of the event.

Dundee Chemists in Favour of the Early-closing Bill.

The chemists and druggists of Dundee and Lochee have unanimously petitioned Parliament in favour of Sir John Lubbock's Early-closing Bill.

Edinburgh District Chemists' Trade Association.

The annual meeting of this Association was held on Tuesday evening at 36 York Place, Edinburgh, Mr. Peter Boa presiding. The annual report showed that the membership is sixty-two, being seven more than last year. As the total shows that only a little over one-third of the available chemists in the district are members of the Association, the committee appealed to outsiders to come in. After referring to the meetings and excursion held, the report proceeded to comment upon the slight concession given by Somerset House in regard to the use of the possessive case, and also reported that upwards of 550 circulars had been sent to medical men in the district pointing out the difficulty which arises when stamped medicines are prescribed in small quantities, and suggesting the advisability of prescribing these with other preparations of a simple nature in order that chemists may dispense them without stamping This circular had been well received. A considerable number of new labels, which have been marked "liable" or "not liable" to duty, have been added to the Association's label-book, which has been frequently consulted. It was hinted that a book containing the names of persons to whom it is inadvisable to give credit would be of use to the members. The financial statement, which included a balance from last year, showed an income of 59*l* 4*s* 9*d*. The balance now standing is 12*l* 10*s* 10½*d*. The committee recommended that the Association should picnic this year at Kinross, going from Edinburgh by train to Perth, driving from there by Bridge-of-Earn and Glenfarg, and returning by train to Edinburgh. After some conversation it was agreed to adopt the recommendation of the committee, who were instructed to carry out the details of the arrangements. The date for the picnic was fixed for Wednesday, June 12. The Chairman, before passing on to the election of office-bearers, moved a vote of thanks to the office-bearers of the Pharmaceutical Society for permission to hold their meetings there, and to Mr. J. R. Hill for his unfailing courtesy. The

motion was adopted. Mr. Boa was afterwards re-elected President, Mr. Bowman Vice-President, Mr. C. F. Henry Secretary and Treasurer, and the Committee as follows:—Messrs Aitken, Forret, Glass, R. L. Hendry, McGlashan, Wylie, Macpherson, Leask, McDougall, Smith, McLaren, and Lunan. Mr. Henry wished to be relieved of the office of Secretary and Treasurer, and the suggestion was made by the Chairman that he might have an assistant, but consideration of the matter was deferred.

French News.

SUICIDE OF A PHARMACIST.—The Cochin Hospital, Paris, was the scene of a painful tragedy on Thursday morning of last week. After having prepared the medicines for the morning distribution, M. Millot, the assistant superintendent of the pharmacy, was leaving the laboratory, when he was noticed to falter. Before help could be given him, he fell heavily to the ground "Let me remain here," he moaned; "I am poisoned." A house surgeon was quickly in attendance, and M. Millot confessed to having taken 30 grammes of strychnine mixed with milk He died two hours later, after suffering great pain. *Désespoir d'amour* is the explanation given for the act. Millot was 32 years of age, married, and the father of three children.

PHARMACEUTICAL LITERATURE.—At a recent meeting of the Paris Academy of Political and Moral Sciences, held under the presidency of M. Léon Say, M. Girard drew attention to three interesting little works by M. Planchon, Director of the Paris School of Pharmacy, bearing the following titles:—"Le Jardin des Apothicaires de Paris," "Les Apothicaires dans les Cérémonies de Parade," and "L'Histoire de l'Orviétan et la Confection Publique de la Thériaque à Paris." These books are replete with interesting data obtained from the archives of the School of Pharmacy. Researches of this kind into the pharmacy of the past are quite a speciality with M. Planchon, but only those who attend the meetings of the Society of Pharmacy can fully appreciate his anecdotes of the bygone apothecary. Most of his listeners know that a treat is in store when he commences to speak by modestly remarking, "I have been spending my holiday in the archives," or a similar phrase.

PHARMACY AND CYCLING.—The existing rage for cycling which has pervaded France, and especially Paris, has proved of great utility to pharmacists. No trade in the city uses the bicyclette for delivering parcels so much as chemists. The wholesale houses also use the "bike." For instance, the Pharmacie Centrale de France has a man who is employed in taking parcels out on a machine, and the arrangement seems to answer very well. The late Mr. S. M. Burroughs used to enjoy his early morning cycle-ride in the Bois de Boulogne during his not infrequent visits to Paris. The students of the Paris School of Pharmacy are coming out strong as cyclists. They have arranged a race-meeting for Sunday morning next at half past 8, in the Bois de Vincennes. The start will be made at 9 A.M., whether it be wet or fine. The distance is eleven turns of a course 1,750 metres round, and according to all appearances the reunion will be a success. A banquet will be held at the termination of the race, to which the competitors can invite their friends.

VICHY SALT.—The Eaux de Vichy Company is now engaged on a number of lawsuits on various questions of competition, protection of its trade-marks, &c. One of the cases has been brought against a pharmacist, who is accused of having placed on bags or sachets supposed to contain Vichy Salts a mark which is a fraudulent, or at least an illicit, imitation of the company's registered marks. Judgment was, however, given in favour of the pharmacist on the following grounds:—"The designation of bicarbonate of soda under the name of Vichy Salt is in constant and general use. It has been consecrated by the French Codex and has long since fallen into the public domain. In the Codex the words Vichy Salt are synonymous with bicarbonate of soda. Doubtless the salts extracted from the Vichy mineral-waters are not identical as regards composition with the commercial Vichy Salt, and a pharmacist cannot sell any other product than that of the company under the name of *Natural Salt* of Vichy, but no charge of the kind is brought against the defendant. The words printed on the bags do not go beyond permissible competition." The company had to pay the costs of the lawsuit.

MUNICIPAL PHARMACIES. — A socialist newspaper, *Le Réveil du Nord*, of Lille, is very wrath with its contemporary, *Le Progrès du Nord*, because the latter has ventured to publish a few sensible remarks on the subject of municipal pharmacy, as a result of the recent proposal made at a meeting of the Paris Municipal Council, and already referred to in THE CHEMIST AND DRUGGIST. A phrase published by the *Progrès* seems to have given special offence to the Socialists. It reads as follows:—"Poor citizens would not benefit by the innovation, because, alike at Paris and Roubaix, they are supplied with medicaments, not at cost price, but gratuitously." *Le Réveil*, says in reply:—"O happy poor! Let the workers hurry up, and get themselves inscribed in large numbers at the Public Relief Offices. Let the municipalities double and treble the subventions given for outdoor relief. Then, thanks to philanthropy and the charity of capitalists, workers can recover their health *gratuitously* when ill, for everyone knows that dispensaries are model administrations, and that waste and favouritism are unknown vices there." The whole of the reply by *Le Réveil* is very much of the same tenor, and, of course, greatly in favour of municipal pharmacies; but the day when the latter will become an accomplished fact in France seems still very remote.

MINERAL WATERS.—At the Chamber of Deputies on Tuesday, M. Chassaing had the distinction of the first question of the Session, for which he excused himself. He referred to a circular dated August 9, 1894, of the Service of Public Hygiene attached to the Minister of the Interior. This Administration, he complained, had interpreted a vote of the Academy of Medicine concerning mineral waters to mean that the bottling of these waters is a source of grave danger. But the chief offence seems to have been that the sterilisation of the bottles by a special apparatus was recommended, whereby a certain firm had obtained a gratuitous advertisement. These and other misdeeds were credited to the Public Hygiene Service. M. Bourgoin, pharmacien deputy, as a member of the Academy of Medicine, said that the manner in which bottles of mineral waters are put up does not cause any real risk to the consumer. M. Leygues, Minister of the Interior, justified the doings of his department in a brief speech. The Academy of Medicine had drawn attention in a report to the fact that certain mineral waters were contaminated. Foreign competitors had made an ingenious use of the opinion so expressed, and the sale of French mineral waters had greatly fallen off, by which a considerable loss was entailed financially. The Minister complimented his department on what had been accomplished, and the Chamber voted in his favour.

A PRESCRIPTION DIFFICULTY.—For nearly sixteen months a curious case has been before the French Courts, which has only recently been settled in favour of the pharmacist who prosecuted a medical man in the Deux Sèvres Department, as the result of a prescription written by the latter, of which the following is a translation:—

	Centigramme
Hydrochlorate of cocaine	0·01
Sugar	0·03
Wine vinegar	0·02

For one cachet, and make twelve similar ones.

The prescription was handed to a neighbouring pharmacist to be made up, who has since said that he thought the combination curious, but made the cachets up all the same. In the course of a day or two the patient seemed to get no benefit from the treatment, and opened one of the cachets, which was found to be empty. This led to a charge of fraud, in the nature of articles sold, being brought against the pharmacist. The local gendarmes, however, did not care to deal with the mysteries of pharmacy, and would not move in the matter. The pharmacist, after trying to get some satisfaction, finally prosecuted the physician for libel. In due course an expert, in the person of M. Villiers, professor at the Paris School of Pharmacy, was deputed to report on the case. He gave evidence to the effect that he

had found on analysis half of the alkaloid and an equal part of the sugar. The disappearance of the remainder was attributed to the action of the vinegar. M Villiers stated that similar cachets made up by himself for experiment only contained the same proportion of solid substances when tested several days later. He further added that the prescription had very much the appearance of being a trap set for the pharmacist. By a clever use of the French judicial procedure, the doctor dragged the case through several Courts, but judgment was finally given against him for 500f. fine, 1,000f. damages, and to pay the costs of the entire lawsuit.

Foreign and Colonial News.

Popular Pharmacy in Java.—The directors of the People's Pharmacy (Volksapotheek) in Samarang, Java, have declared a dividend for 1894 of 9 per cent.

Exhibition in Japan.—The exhibition at Kioto, referred to recently, will remain open until August next. It is in commemoration of the eleven hundredth anniversary of the foundation of the city.

A New Wholesale Drug house in Warsaw.—Under the style of "Droguen-Niederlage Vereinigter Apotheker" (Drug Depôt of the United Pharmacists), a company has been formed in Warsaw, Poland, to carry on the business of wholesale druggists. The capital of the company is 105,000r. Mr. Ladislas Wierogórski, is the managing, and Mr. Bronislas Popiel, the associate, director.

American and Russian Petroleum Interests.—Negotiations for an agreement between the American Standard Oil Company and the Russian producers of petroleum for a division between the two parties of the entire trade of the world are still proceeding. The proposal is at present being considered by M. Witte, the Russian Minister of Finance The Standard Company is estimated to have made 2,000,000*l* out of the petroleum boom of the past three weeks.

Artificial *v.* Natural Honey.—In connection with the proposed increase in the German Customs duty on honey, the question whether artificial honey can be distinguished from the natural product by chemical means has lately attracted much attention in Germany. The last word in the matter has, so far, been spoken by Mr. Heule, who, on April 24, in the debate on the Customs Bill in the German Reichstag, declared that it was not possible clearly so to distinguish the two varieties.

Californian Olive Oil.—In reporting on the Chicago Exhibition we dealt fully with the olive culture in California and the manufacture of olive oil. We now observe that an attempt is being made to introduce the oil in the New York market, but at the price then mentioned—viz., $1.50 per wine-bottle. The agent is confident that the time is not far distant when more olive oil will be produced in California than is produced in all Europe; but it will be some years yet before the oil is produced at 75c. per bottle—*i.e.*, 18*s.* per gallon.

A New Dutch Cocoa Company.—The business of the firm of J. & C. Blooker, cocoa manufacturers, of Amsterdam, has been turned into a company, under the style "Internationale Cocoafabrieken." The object of the company is to manufacture cocoa, cocoa powder, chocolate, butter of cocoa, and other cocoa-derivatives, to trade in these articles and the raw materials from which they are made, and the buying and selling of cocoa-products made by third parties. The capital of the company is 1,000,000f. (about 85,000*l.*), in 200 shares of 5,000f each, of which the firm of J. & C. Blooker obtain 120 in consideration of the transfer of their factory to the company. The company will issue debentures to the extent of 750,000f. (625,000*l.*), bearing 4 per cent. interest, of which 300,000f. are irredeemable and secured in first mortgage on the company's factory, and 450,000f. redeemable at any time. The whole of the debentures are taken up by the three Messrs. Blooker, one of whom, Mr. D. Blooker, will act as managing director, and a second, Mr. J. Blooker, as secretary.

Apollinaris in South America.—The German Consul at Conception, Chili, is angry with his countrymen for paying so little attention to the quality, and especially to the packing, of the goods they send to Chili, and has written home to his Government that this want of care loses the Germans many orders. "For instance," he observes, "my own firm received last year a considerable shipment of natural mineral water from a spring in the Harz mountains, Germany, part of which had run out of the bottles, while another portion had become unfit for use, simply because the bottles had been closed with thoroughly wretched, bad corks. Now, it is particularly necessary that all beverages aërated with carbonic-acid gas should be closed with the very best corks, especially when the goods have to cross the equator. Through this misplaced parsimony, the otherwise good quality of the Harz water was discredited from the beginning, and the business in the article spoilt entirely, to the advantage of other mineral waters which are more carefully packed, such as Apollinaris. Although that water is also of German origin, the English owners of the spring take care that it is always sent out in the same excellent mode of packing, hence, in spite of its high price, it enjoys a colossal sale here."

Australasian News.

The following notes are based upon information contained in the April number of *The Chemist and Druggist of Australasia.* Copies of this publication (price 6*d.* each) may be had upon application to the Publisher, 42 Cannon Street, E.C.

Kempthorne, Prosser & Co's New Zealand Drug Company (Limited) have declared a dividend of 7½ per cent. for the half-year ending January 31, and carried forward 13,453*l.*

Victorian Rose-water.—Thirty gallons of rose-water were produced at the Dunolly Scent Farm, Victoria, in 1894. The quality is stated to be very good, and three or four times stronger (!) than the ordinary aq. rosæ of commerce.

The N.S.W. Pharmacy Bill.—The members of the N.S.W. Pharmacy Board had a private interview with the Premier, Mr. G. H. Reid, on March 21, concerning the much-delayed Pharmacy Bill. The object of meeting the Premier was to suggest further additions to the Bill, which is now regarded as perfect from a pharmaceutical point of view. Mr. Reid promised to forward the draft without alterations to the parliamentary draftsman, and gave the members of the Board to understand that the draft would be presented to the Assembly without any alteration. It is a moot point, however, whether the Bill is not too unwieldy, in which case the Government will probably not display any anxiety to take it up while they have anything else in hand.

An Australasian Soap Case.—The equity suit of A. & F. Pears, of London, *v.* Field, soapmakers, of Sydney, which has been before the N.S.W. Equity Court for the past twelve months, has come to an end. The suit was brought against the Sydney firm for breaking the Trade-marks Act, by imitating Pears' unscented soap label. It was defended until a few months back, when the prospects of a settlement looked hopeful. At the end of February Mr. McLaughlin, the plaintiffs' solicitor, made a formal application for a perpetual injunction, and, there being no opposition by the defendant, the order was made The defendant agreed to publish throughout the colony an apology for the infringement, and to pay 465*l.*, being the total for costs and damages.

The Tasmanian Exhibition.—The jury of this exhibition have made the following awards:—Tea-tabloids: Burroughs, Wellcome & Co., special first award. Cornflour, starch, &c.: J. & J. Colman & Co., Norwich, first-class certificate for cornflour, first class certificate for mustard, first-class certificate for starch and blue Dried fruits and vegetables: First-class certificate for collection of bottled and dried fruits, Dr. H. Benjafield, Hobart. Curry-powders and sauces: First-class certificate for curry-powder and

tomato-sauce, Mrs. Keen, Kingston, Tasmania; Spencer & Co., Madras, India, special first-class certificate for chutnee, curry-powder, and tomato-sauce; Mr. Zorn, Victoria, first-class certificate for sauces and relish. Salt: First-class certificate, Salt Union of England (Limited), for exhibit of salt.

THE "PHARMACEUTICAL SOCIETY OF AUSTRALASIA."—The thirty-eighth annual report of the Pharmaceutical Society of Australasia (which is the name assumed by the local Society of Victoria) has recently been issued to the members of the Association. The receipts for the year 1894 (including a balance of 1,548*l* 8*s*. from 1893) amounted to 1,880*l*. 3*s* 6*d*., the expenditure to 1,079*l*. 12*s*. 6*d*., leaving a balance in hand on December 31 of 800*l*. 11*s*. The income of the College of Pharmacy was 2,257*l*. 5*s*. 3*d*. (including 438*l*. 13*s*. 3*d*. balance from 1893), its expenditure 1,848*l* 7*s* 7*d*., leaving a balance of 408*l*. 17*s*. 8*d* to be carried forward. *The Chemist and Druggist of Australasia* points out that the accounts support the conclusion that the 1 548*l* 8*s* balance from 1893 has not been invested, and calls upon the treasurer to explain where the money is, the accounts failing to disclose any revenue from interest.

IMPENDING RECONSTITUTION OF THE PHARMACEUTICAL SOCIETY OF QUEENSLAND.—At the Council meeting of the Pharmaceutical Society of Queensland, on February 27, it was resolved that the secretary should prepare a scheme for the reconstitution of the Society. It is hoped that the adoption of the scheme may lead to an improvement in the condition of pharmacy in the colony. If anything is to be done for the pharmacists of Queensland, it will have to be done by the Society, for the Government will never move unless compelled. The object of the move is mainly to take out of the hands of unqualified storekeepers and herbalists the sale of drugs and medicines in whatever form they are prepared for use The reorganisation of the Society will give to the Council an opportunity of laying down a fixed policy with some hope of success, and may possibly cause greater interest among pharmacists in the Society and its purpose.

THE PHARMACEUTICAL SOCIETY OF NEW SOUTH WALES.—The annual meeting of this body was held in Sydney on March 26. Fifteen members (inclusive of the chairman and secretary) attended. The balance-sheet showed that the receipts during 1894 had been 255*l* 2*s*; the expenditure 234*l* 17*s* 7*d*. The Society's total assets now amount to 626*l* 19*s* 8*d*, and there is a benevolent fund of 20*l*. 9*s* 11*d* The report stated that the Society had suffered through the prolonged financial crisis which has passed over the colony, and in consequence of the tightness of money, under which many of the members of the Society are suffering, the subscriptions have fallen off But, notwithstanding this, the financial position of the Society is better than it was in 1893, and there are indications of better times to come. "Regarding the Pharmacy Bill," continues the report, "your Council regret not being able to report its passing. Your Council have increasingly laboured to keep the interest in this Bill alive by continuous representations to headquarters, as well as deputations to ministers There are, however, more indications which lead your Council to believe that the Bill will be laid before Parliament very shortly." During the year 1894 twenty candidates presented themselves for the Final examination, of whom eleven passed. Of twenty-nine candidates for the Preliminary examination, twenty-one passed. The President, in his speech, said that the provisions of the Pharmacy Bill were as liberal as they could possibly make them, every existing right being recognised One of the most earnest aims of every member should be the establishment of reciprocal relations with the other colonies. Judging by the assistance they had had from the Registrar in Melbourne, and the interviews he himself had had with the President and the Registrar of the Pharmacy Board in South Australia, there appeared very strong hopes of reciprocity in the near future. He would like to see the Society made more of a social and instructive institution than it is. Papers should be read occasionally so as to bring the members together, and it ought to come within the scope of the Society to promote the social as well as the business welfare of its members.

Counter Practice.

RECIPES CONTRIBUTED BY SUBSCRIBERS IN COMPETITION, AND COMMENTED UPON BY A MEDICAL PRACTITIONER WITH TYPICAL PRESCRIPTIONS IN EACH GROUP.

DYSPEPSIA.

BISMUTHIC MIXTURES.

Bismuthi subnit. .. .. ʒiss.
Tinct. nucis vom. .. .. ʒj.
Succ. tarax. .. .. .. ʒj.
Infus. quassiæ
Infus. calumbæ
aa partes æquales ad .. ℥viij.
M. Ft. mist.
Sig.: Coch. mag. sum. ter die ex aqua. (141)

Sod. bicarb. .. .. .. ʒij.
Spt. ammon. ar. .. .. ʒiij.
Acid. hydrocyan. dil. .. ʒss.
Bismuth carb. .. .. ʒss.
Inf. gent. co. .. .. ℥vi.
Aquæ chlorof. ad .. .. ℥vj.
M. Ft. mist.
℥ss ter die post cib. (139)

Sodæ bicarb... .. .. ʒiss.
Bism. carb. .. .. .. ʒij.
Spt. ammon. arom... .. ʒiij.
Inf. calumbæ .. .. ℥iv.
Spt. chlorof. .. .. .. ʒiss.
Inf. gent. co. ad .. .. ℥viij.
M. ℥j. ter die p.c. (187)

Bismuth. subcarb. .. .. ʒj.
Pulv. sodii bicarb. .. .. ʒj.
Pulv. tragac. .. .. gr. vj.
Spt. chloroform .. .. ʒiss.
Tinct. nucis vom. .. .. ʒj.
Aq. ad .. .. .. ℥iv.
Mist. Ft. mist.
℥ss. ter die half-an-hour after meals. (51)

Bismuth. subnit. .. .. ʒij.
Sodæ bicarb... .. .. ʒij.
Tinct. cardam. co. .. .. ʒiv.
Spt. chloroformi .. .. ʒiss.
Aq. menthæ pip. ad .. ℥vj.
Ft. mist.
Cap. ℥j. ter in dies. (93)

Sodii bicarb. .. .. ʒij.
Bism. carb. .. .. .. ʒij.
Acid. hydrocyan. dil. .. ♏24
Sp. chlorof. .. .. .. ♏80
Tr. nucis. vom. .. .. ♏80
Aq. ad .. .. .. ℥viij.
℥j. t. die a. cib. (64)

Bismuth. carb. .. .. gr. 40
Sodii bicarb... .. .. gr. 40
Pulv. trag. co. .. .. gr. 40
Tinct. chlorof. co. .. .. ʒiss.
Tinct. nucis vom. .. .. ʒss.
Aq. ad .. .. .. ℥viij.
M. Ft. mist.
Cap. ℥j. ter die p.c. (214)

Sod. bicarb. .. .. .. ʒj.
Bismuth carb. .. .. ʒij.
Æth. chlor. (D. & F.) .. ʒj.
Tr. nuc. vom. .. .. ʒiss.
Tr. aurant. .. .. .. ʒij.
Aq. ad .. .. .. ʒviij.
½ pt. t.d.s.
Pil. rhei et hyd. gr. ivss. iv.
ij. alt. nocte sd. (129)

EAR-TROUBLES.

EARACHE.

Glycerini acidi carbolici .. ℥ss.
Signetur: Guttæ nocte manequ ntendæ. (157)

This seldom fails to give relief, and is well recommended by several aurists. A little spt. vini rect. would increase its efficacy if any discharge be present.

EAR-ITCHING.

Ol. hyoscyami .. .. ʒj.
Ol. amygdalæ dulc. .. .. ʒj.
Misce. Fiant guttæ.
To be used night and morning as directed. (156)

REMEDIES FOR CHILDREN'S AILMENTS.

TEETHING-POWDER FOR CHILD. 1 YEAR.

Mag. carb. pond. .. .. gr. iv.
Pot. brom. pulv. .. .. gr. j.
Hyd. subchlor. .. .. gr. ⅓
Sacch. lact. .. .. .. gr. v.
Ft. pulv. j. (90)

(Under 6 months.)

Hyd. c. cretâ .. .. gr. ¼
Mag. carb. pond. .. .. gr. j.
Pulv. sacchar. alb. .. .. gr. ¼

(6 months to 1 year.)

Hyd. c. cretâ .. .. gr. ss.
Mag. carb. pond .. .. gr. jss.
Pulv. sacchar. alb. .. .. gr. j.

(1 to 2 years.)

Hyd. c. cretâ .. .. gr. j.
Mag. carb. pond. .. .. gr. ij.
Pulv. sacchar. alb. .. .. gr. j.
(122)

The usual form of teething-powder. Mothers should be warned not to give them too frequently, as the free dosing of children with mercurials tends to impair the vitality of their teeth.

SALINE FEVER MIXTURE.

Liq. ammon. acetatis .. ʒiv.
Spt. æther. nitric., P.L. .. ʒij.
Tinct. aurantii .. .. ʒss.
Syr. rhei .. .. .. ʒiv.
Aq. anethi ad .. .. ℥ij.
Cap coch. parv. j. quartis. horis. (233)

SOOTHING-SYRUP.

Potass. bromid. .. .. gr. vj.
Sodæ bicarb... .. .. ʒj.
Glycerini .. .. .. ʒij.
Sacch. ust. .. .. .. q.s.
Aq. anethi ad .. .. ℥iss.
Average dose ʒj. (150)

Rather more bromide would be better here, and more glycerine and flavouring added to disguise its saline taste.

Imperial Institute Photography.

THE United Kingdom Section of the Imperial Institute have arranged an Exhibition of Photography, and its applications to the arts, sciences, and industries, which was opened to the public on Saturday last. The exhibits are arranged on the upper floor of the Central Gallery, and in the North Gallery on the ground-floor. The Exhibition is to remain open until the end of July. It is rather scientific and technical, but we should imagine that it will please the public well, for throughout the pictures are of the most varied character, and many of them particularly interesting. The North Gallery is divided into a dozen so-called rooms, which are devoted to pictures, apparatus, machinery, and occasional demonstrations of processes. The various Government departments have contributed freely. The Chemical Department of the War Office, Kew Observatory, Greenwich Observatory, and Professors Norman Lockyer and Noel Hartley have sent selections from their collections; while the Governments of India, Straits Settlements, Canada, the Australian Colonies, British Guiana, and Hong-Kong have sent some very interesting photographs illustrating native customs and industries and the chief towns. Some of the well-known scientific societies also contribute, as well as the leading illustrated weeklies, and leading firms of printers and photographers have liberally contributed to make the spectacular part of the Exhibition attractive and popular.

At the beginning of this week a very small section of the Exhibition remained incomplete, and, strange to say, this was the first on the catalogue—namely, the Historical Division. Here there is a collection showing the development of the hand-camera, but, truth to tell, it might be better arranged, and that easily. The Anschütz instantaneous camera, for which the BLACKFRIARS PHOTOGRAPHIC COMPANY, 1 Surrey Row, S.E., are the agents, is placed first, whereas we should put it at the end of the list as the highest development in that department. The germ of the hand-camera, so far as the Exhibition is concerned, is shown by Mr. C G. COLLINS, this being a cubical leather-covered box designed by Mr. T. Bolas. It is not a bad thing at all, and were it not for the clumsy mechanism it would still pass as a good hand-camera. It is arranged for focussing, has an instantaneous shutter (released by pneumatic power), and a chamber for three double dark-slides. Messrs. MARION & Co. show a number of early ideas, more compact and better executed; while the EASTMAN PHOTOGRAPHIC MATERIALS COMPANY, with a small weather-beaten "Kodak" strike the keynote of modern notions in detective cameras and compact accessories. This Company also exhibit the latest pattern of the folding "Kodak," a camera which takes 7 by 6 pictures, and can be squeezed up into a package 3¼ inches thick. The "Kodet" is shown by the same firm, and their collection, though small, exhibits the primary idea of this department—namely, evolution. We were interested to see the new "Kombé" dissected into its parts with illustrations of its work, and the Eastman films for taking the pictures. WATSON, of Holborn, and BECK, with the "Frena," help to make the exhibit interesting, while gun, watch, purse, tie, and field-glass cameras show the fanciful side of the affair. This same section is understood to be educational; but the less said at present about that the better.

The North Gallery exhibits may be divided into four classes:—First, official exhibits, which need not be referred to further than to say that they are worth close inspection as being in many cases quite unique; second, exhibits illustrating the development of colour-photography; third, photo-mechanical processes, including photogravure, half-tone work, and photo ceramics; and, fourth, trade exhibits. In colour-photography there is very little that is new, but much that is pretty. Mr. E J. Wall, one of the best-known pharmacist photographers in the kingdom, is responsible for the arrangement of this section, which consists chiefly of chromo-prints made from gelatine blocks of the objects photographed through yellow, blue, and red screens separately. The principle is substantially the same throughout; the use of these coloured screens ensuring the stopping-out of the other primary colours, and, whether the prints are made from a gelatine surface, stone, or half-tone metal blocks, the results are practically alike—a blend of the coloured printers' inks, more or less untrue to Nature. We were assured by an attendant at the BRITISH FINE ARTS SOCIETY (LIMITED), who have a beautiful exhibition of photographs, that these are made by three printings upon sensitised paper; but we wait for more satisfactory information before we feel sure that the Society's beautiful pictures are photography in colours. The process is described as Mathieu's.

The Photo-mechanical Section is a strong one. The Polytechnic Institution have, for example, an installation of apparatus and machinery which is worked every evening, and shows how line and half-tone blocks are produced The Institution is now training pupils in this industry, and we are assured that the demand for instruction is growing, so that ere long we may expect a band of well trained artists in this department. Newspapers as well as the public will immediately benefit from this development.

The Photo-ceramic Section is excellent. It is a very praiseworthy attempt on the part of Mr. Snowdon Ward and Mr. E. J. Wall to revive the dusting-on process of reproducing photographs on china and enamel. Interest is added to this section by the fact that the Princess of Wales has contributed a tea-service for twenty-four persons, each piece of which bears a "Kodak" photo taken by the Princess and reproduced in the enamelled style. The tea service is by no means pretty, but throughout the section there are many beautiful examples of the art which is the coming thing in professional photography. Demonstrations are given on Monday, Thursday, and Saturday evening by Mr. W. E. Henry, C.E., who shows how the photograph is taken and transferred to the china and burnt in with a Fletcher's or Battersea furnace. The process is a good deal boomed just now, and is not all smooth sailing, so we are glad to notice that Mr. Wall in his cases of examples shows a good many failures.

Turning to the exhibits of apparatus and materials we shall refer to each one very briefly.

CHARLES BURR, Wakefield Street, East Ham, illustrates the manufacture of photographic lenses by castings and grinding samples.

FUERST BROTHERS, 17 Philpot Lane, E.C., show Lumiere's ortho-chromatic dry-plates and coloured screens for use therewith.

HANNAM & Co., 25 Soho Square, W., make a magnificent exhibit of photographic mounts, albums, and many requisites, such as trimmers and vignettes, for use in printing. The machinery used in making mounts is also shown, and the firm as agents for the Sun Camera Company show a few examples of the latter's manufactures.

MORLEY & COOPER, 70 Upper Street, N., have an excellent case full of apparatus, but, unfortunately, no one in attendance or any literature to explain its nature

A & M. ZIMMERMANN, Cross Lane, E.C. as agents for Scherings, of Berlin, exhibit anthion (a permanent alkaline sulphite), hydrokinone, pyrogallic acid, and xylodin as well as "emulsion-paper," and some excellent photographs taken on the latter.

B. J EDWARDS & Co., Hackney, have a very good exhibit of apparatus, including dark slides, camera stands, and a new developing-tray. The last consists of an open frame of enamelled metal, inside which is a movable lining formed of a single piece of transparent celluloid. The firm's iso-chromatic plates are a feature.

The PREMIER DRY-PLATE COMPANY, 21 Charles Street, Notting Hill, W., show examples of the work done with their plates.

J. H. STEWARD, of 406 Strand. W C, has some well-made cameras on show, including the "Omniform" and "Standard," and photographic lenses, with some examples of his optical lanterns and accessories for the same.

AIRS & Co., of 152 Farringdon Road, E.C., exhibit the "Bessus" plate and film-holders and other "Bessus" specialities, which we described some time ago.

PENROSE & Co., Upper Baker Street, exhibit more fully than any other firm in the Institute the apparatus and tools required in photo-engraving.

F. W. HART, 96 Stoke Newington Road, N, shows a flash-light installation, consisting of a movable tent, to one end of which are attached a number of lamps, each of which burns 5 gr. of powdered magnesium, the whole lot being simultaneously ignited. The specimens of work done under

the arrangement are almost indistinguishable from daylight photographs.

Apart from the apparatus which we have noted, there are many things in the Exhibition which will interest those who deal in photographic goods or who are amateur photographers. The Institute is a pleasant place at which to spend an evening, and if it were for nothing else than to see the magnificent photographs contributed by the Australasian colonies, which are shown in the garden verandahs, a visit to the Exhibition is worth making.

Legal Reports.

PROSECUTION UNDER THE FERTILISERS AND FEEDING-STUFFS ACT.

At Worcester, on May 1, Percy White, of Liverpool, was summoned for selling pig-meal which was certified to be worthless for feeding-purposes. A sample of the meal was analysed by Dr. Voelcker, who found in it 21·60 per cent. of sand. The case, however, failed, owing to the time when the samples were taken not being within the ten days, as required in the Act.

SALE OF UNCOLOURED ARSENIC.

At the Atherstone Police-court last week Mary Orme, chemist, of Atherstone, was summoned for selling 2¼ lbs. of arsenic which had not been mixed with soot or indigo, as required by law. Mr. Alfred Sale appeared on behalf of the defendant (who was not present), and stated that his client admitted having sold the arsenic unmixed, but pleaded that it was an error of judgment. The arsenic was sold by the apprentice to a man for the purpose of destroying vermin. It was an error of judgment, and he asked the Bench to deal leniently with the case. Superintendent Hannah stated that he saw the entry in defendant's poison-book and called the manager's attention to it. The latter said he thought he was justified in selling that quantity, as it was wanted for a specific purpose. In reply to the Clerk, he explained the object of the Arsenic Act in requiring colour to be added. The Chairman said the Act should be carefully carried out; but as the Bench considered the sale simply an act of inadvertence, a fine of 10*s.* and 10*s.* 6*d.* costs only would be imposed.

A DISPUTE ABOUT A CHEMIST'S ALMANAC.

At the Southampton County Court, on May 7, Frederick Goodrich, Delmar Bicker-Caarten, and Frank John Collett (trading as the South of England Printing and Publishing Company), 17 Laura Place, Southampton, sued W. T. Jones, chemist, Sutton Coldfield, for 6*l* 12*s.* 7*d.*, balance of account alleged to be due for printing 500 almanacs. The defence was that the plaintiff's traveller guaranteed that the advertisements would cover the cost of printing. He was, however, charged 10*s* 6*d.* per page, less 40 per cent., for his own advertisements, and thus the amount mentioned was made up. Moreover, some of the advertisements were vulgar. The plaintiff said these had been sent in by the defendant. The almanac in question was an ordinary chemist's annual. Some rather absurd advertisements were shown to the Court. Ultimately, his Honour gave judgment for defendant. Costs were not asked for.

GUM FOR THE "DEADLY FLY-TRAP."

At York Castle on Tuesday, Mr. E. Ridley, Q.C., official referee, commenced the hearing of evidence in the case of Hopkinson *v.* Bleasdales. This is an action in respect to the quality of birdlime bought by Walter Wray Hopkinson, carrying on business at Doncaster under the title of "Executor of the late William Slack," from Bleasdale (Limited), of York. It was referred by Mr Justice Charles at the last Leeds Assizes to Mr. Ridley as arbitrator. Damages of 2,000*l.* are asked for, and there is a counterclaim.

Mr J. W. Chitty, in his opening statement for the plaintiff explained that Mr. Hopkinson invented and patented his fly-trap in 1892. Birdlime was an essential constituent of the "trap," and this he purchased from defendant, mixing with it other materials—treacle to attract the flies, quassia to kill them, and the birdlime to hold them fast. The traps made with the defendants' birdlime became, it was alleged, bad, and were returned. 620*l* of the damages were in respect of these returns. Plaintiff in his evidence stated that he at first purchased "Pickford's birdlime" from the agents, Kaye, of Stockport. There was an enormous sale in 1893 for the fly-traps, and, though defendants supplied him with birdlime, it was not of their own manufacture. Customers complained of the 1894 papers, but they were made of the same ingredients, in the same proportions, as those in 1893. Cross-examined, plaintiff said the sum of 1,198*l.* 7*s.* 10*d.* represented the value of the papers returned, to be returned, and in stock. It was possible that amongst the papers made from Bleasdale's birdlime returned there might have been some made from Pickford's. Cross-examination of the plaintiff was concluded on Wednesday. The other witnesses were Joseph Morris, his assistant, who said that after the complaints Mr. Humphreys, defendants' traveller, said he would give instructions that less resin should be used in making the birdlime. William Parkinson, wholesale druggist, Burnley, said he returned 159 gross last year and 87 gross this year. The fly-traps were moist on being opened, but not sticky; they were totally different to those supplied in 1893. Other present and past assistants of plaintiff's—viz., William Bowdler, Arthur Henry Herbert, trooper in the Royal Horse Guards, Richard Henry Whitehead, South Shields, and Henry James Nethercote, York—testified to the making of fly-traps, and following them were a number of retailers who spoke of the deterioration, Mr. Thomas Fairley, public analyst, Leeds, giving expert evidence

Mr. Kershaw, Q.C., on behalf of the defendants, argued that the sale was simply a sale by sample, and if the defendants supplied the bulk equal to the sample in every respect there was no further obligation on them that it should be fit for the purpose of the person who purchased it. The plaintiff had failed to get a lasting power in his paper, and no commercial man would warrant his materials to make a certain article when he knew other articles were going to be used. Mr. Kershaw explained that the plaintiff did not complain until June 26. Mr. Humphreys, secretary of Bleasdale (Limited), having been examined, the Court adjourned for the day.

Gazette.

PARTNERSHIPS DISSOLVED.

Brooks, B., and Causer, H. E., chemical-agents, isinglass-merchants, &c., Manchester, under the style of B. Brooks & Co.

Duckworth, T. H., and Wright, S., aërated mineral-water manufacturers, Oldham, under the style of Duckworth & Wright.

Iliffe, F., and Iliffe, W., surgeons, Derby.

Kennedy, S., and Kennedy, S. A. S., physicians and surgeons George Street, Hanover Square, W., under the style of Dr. S. and A. S. Kennedy.

Trick, W. B., and Bowden, W., chemists and druggists, Edgware Road, W., under the style of William & Bowden.

Worsdell, E., and Fox, A. E., chemists and druggists, Banbury.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Carpenter, John William, Goudhurst, Kent, doctor of medicine.

Spence, John Henry, St. Ann's Road, Brixton, S.W., and Camberwell Road, S.E., feeding-bottle shield manufacturer.

The following Amended Notice is substituted for that published in the "London Gazette" of April 12, 1895 :—

Meerwald, Osmond Spencer, Churchfield Road, Acton, W., surgeon.

ADJUDICATIONS.

Anderton, Fred Wainwright, Halifax, veterinary surgeon.

Garman, Vincent Cornelius, late Eastbourne, now Tunbridge Wells, medical practitioner.

Hodges, Albert, described in Receiving Order as A. Link (trading as the Link Shell Trust Company), Wardour Street, Oxford Street, W.

Meerwald, Osmond Spencer, Churchfield Road, Acton, W., surgeon.

ADJUDICATION ANNULLED.

Jumeaux, Benjamin, Ambleside, surgeon and artist.

Trade Notes.

Jeyes' Sanitary Compounds Company (Limited) must be getting tired of gold medals. They have got three at exhibitions recently held at Halifax, Manchester, and Stockton-on-Tees. The company are to do the disinfecting at Bisley camp this year again.

Messrs. Ross & Co., 111 New Bond Street, W., have published a much-enlarged edition of their catalogue of lenses, cameras, microscopes and accessories, and other optical and scientific instruments of which they are makers or agents. It is well illustrated, and the prices of all the articles (with the discounts) are mentioned. The catalogue is marked 6*d* — we presume, to ensure that only likely buyers of the goods will apply for it.

For some time it has been the custom of the parochial dustmen to carry disinfecting-powders for distribution in the dustbins after the refuse is taken away. But there appears to be a "season" for this, as well as with many other things, judging by the information given by an Islington dustman to a ratepayer this week. Be this as it may, the local Vestry do not appear to stint the supply of disinfectants, for in the past two weeks there was paid to the Sanitas Company (Limited) 61*l.* 5*s.*, and to Adcock, Easton & Co., 15*l.* 8*s.* 6*d.*

"The Kodak News" has started well. Cecil Aldin provides an artistic frontispiece in crimson and black, the subject a pretty *débutante* bowing to her audience. The get-up of the *News* is excellent, the papers and notes well selected and fresh, and illustrations are used with wisdom. The *News* is priced at "one penny," and the Eastman Photographic Materials Company (Limited), 115–117 Oxford Street, W., are the publishers. Dealers in photographic goods will obtain particulars from the Company of the conditions of supply. The *News* is well worth having.

Mr. John Sharp the sole surviving partner in the firm of Sharp Brothers, of 12 and 14 Southampton Row, who has carried on that business during the past thirty years, announces that he has disposed of it to "The Sharp Brothers Soap and Perfumery Company (Limited)." Particulars of the new company are given on another page. The company have acquired all the recipes and trade-marks of the firm, and will shortly remove the business to 18 and 19 Red Lion Square, where new plant and steam-machinery of the latest type are being erected. The new management is likely to put fresh vigour into the well-established business.

Pears' Puzzle-box.—Messrs. A. & F. Pears (Limited) have been advertising during the past week an advertising novelty, which they send to applicants for six penny stamps. We wish, by the way, they had given the distribution to chemists; it would have brought plenty of customers in. The principal thing in the box is the spectrum top, a disc of cardboard, half of which is jet black, and on the white half are twelve segments of concentric rings. When the disc is revolved one sees red, green, grey, and purple rings on the top, but the colours really vary according to the quality of people's eyes and the rapidity of the revolutions. Two persons have in our presence detected pink, green, cardinal-red, crimson, grey, blue, heliotrope, and many more would doubtless be observed, provided one gazed long enough. Such a delightful spectacle it would be to get a roomful of people to note down what colours they make out of this black-and-white disc, then compare notes. The other contents of the box are Pears' bicycle-wheels, deceptive geometrical figures, misleading railway track, tumbling cubes, and Yorick's skull. This week Professor Crum Brown has delivered the fourth Robert Boyle Lecture at Oxford on "The Relation between the Movements of the Eyes and the Movements of the Head." We wonder if Pears' box was used in the demonstrations; the contents would admirably apply.

We have read through the circular issued by Mr. Edward Aspinall, and published as an advertisement on another page, and have had the advantage of a conversation with Mr. Aspinall about his scheme. As far as we can judge, Mr. Aspinall makes a fair and sensible proposal. He is the gentleman who a few years ago made a remarkable success with Aspinall's Enamel, which was transferred to a company with which he has now no concern. He has two other specialities—"Neigeline," for the skin, and "Taklis," a renovator for silk hats, and he would like to sell these through chemists. A certain trade in these articles has been established, and Mr. Aspinall thinks this can be largely extended by a scheme of mutual interest. He, therefore, asks chemists to become shareholders in his enterprise. He does not care how small a number they take—one will do, but he wants them interested. Then he wants them to keep his articles, which he will supply on sale or return. Finally, he guarantees in any case to return in dividend at least 50 per cent. of the amount invested in the course of five years. Mr. Aspinall offered to deposit the securities for this guarantee with us, but we could not accept the proposal. If chemists will associate themselves with this enterprise, Mr. Aspinall will undertake to maintain profits. No one can guarantee the success of such a business, but the plan seems to be well thought out, and is at least worthy of consideration.

Business Changes.

Messrs. A. P. Colley & Co. have opened a new drug-store at 29 North Street, Bristol.

Messrs. Fletcher & Co., "International Chemists, from London and Cairo," are opening premises on Spring Bank, Hull.

Mr. J. H. Hart, of Marine House, Clevedon, pharmaceutical chemist, has added a photographic dark-room to his pharmacy.

Mr H. S. Annal, late of Warboys, has purchased the business carried on by Mr. Stephen Lakeman, at Bank Street, Melksham. Messrs. Berdoe & Co. were the transfer agents.

Mr. Thomas Carter has purchased the chemist's business carried on by Mr. John Guy, at the Richmond Pharmacy, Boughton, Cheshire, during the last twenty-seven years.

The business at High Street, Selly Oak, near Birmingham, which has been carried on for upwards of twenty years by Mr. Fredk. Frobisher, has been purchased by Mr. Charles S. Birt, of Birmingham.

The business of Mr. G. H. Lodge, Church Street, Rotherham, has been acquired by Mr. George Coverdale, pharmaceutical chemist, York, who is to continue it on "modern lines and store-prices" This is Mr. Coverdale's fourth pharmacy, and he has the idea of carrying his ventures into double figures should suitable openings arise.

The Actien-Gesellschaft für Chemische Industrie in Mannheim announce that, consequent upon the expiration of their contract with Mr. Hugo Lorenz, of London, they have appointed as their agents for London Messrs Brummerstaedt & Lüders, 60 Mark Lane, E.C.; for Lancashire, Yorkshire, and the Midlands, Messrs. F. S. Bayley & Co., Manchester; and for Scotland, Messrs. C. Schneider & Co, Glasgow.

There has recently been opened at 88 Queen Street, Cheapside, E.C., a new kind of drug-store, called the "Hygienic" Co-operative Store. The peculiarity of the shop is that the stock consists entirely of packed goods, such as household remedies, toilet preparations, homœopathic medicines, and druggists' sundries generally. There are no shop-rounds or anything of that kind, and the shop looks, on the whole, more like a superior oil and colour man's than a chemist's. The manager does not pretend to be a chemist.

Women as Pharmacists.—Mrs. Belle C. Heilman informs *Meyers Bros' Druggist* that "woman is the universal druggist, as she is the universal mother. Her initiation dates back to the time when Adam made himself sick eating green apples."

New Companies and Company News.

Electro-Hygienic Company (Limited). — Capital ,000*l.*, in 1*l.* shares. Objects: To adopt an agreement ted April 18, and made between Henry C. Braun and enry C. B. Sharman of the one part, and Thomas O'Hare or the company) of the other part, and to acquire, develop, rn to account, and deal with certain patents, patent rights, ences, concessions, &c., details of which are not given. e first subscribers are:—Wm. J Lancaster, Colmore Row, rmingham, optician (500 shares); H Bissellier, 11-15 New rtholomew Street, Birmingham, brassfounder (500); J. awkes, Heathfield Road, Handsworth, silversmith (500); W. Barber, 103 Bristol Road, Birmingham, manufacturer (1); J. H. Sturmey, Fern Bank. Middleboro' Road, Coventry, wspaper proprietor (1); W G. Anderson, 17 Dora Road, rmingham, journalist (1); T. O'Hare, 5 Hyde Road, Edgston, clerk (1). The first directors (to number not fewer an three nor more than seven) are to be appointed by the bscribers. Qualification, 500*l.* Remuneration, as the comny may decide.

British Hygienic Association (Limited).—Capital 000*l.*, in 2,000 ordinary shares of 10*l.* each, and 50 founders' ares of 100*l.* each. Objects: To carry on the business of akers, importers, exporters of and dealers in proprietary icles, whether patented or not, pharmaceutical, medicinal, ntal, chemical, industrial and other preparations, products, ments, oils, soaps, paints, and varnishes. The first subcribers (who each take one share) are:—S. Grant, 6 Strathre Road, Mensham Park, Liverpool, merchant; C. T. e, Hazeldene, Willesden Lane, Brondesbury, merchant; E. Hodder, 75 Sunderland Road, Forest Hill, S.E., engineer; Blumenthal, 29 Mowbray Road, Brondesbury, merchant; Howard, jun., 5 Gotha Street, South Hackney, accountant; Kaspary, 9 Boxnorth Grove, Richmond Road, N., merchant; Howard, 33 Coronet Street, N., metal merchant. The st directors (to number not less than two nor more than e) are to be appointed by the subscribers. Remuneration, *l.* each per annum.

Sharp Brothers' Soap and Perfumery Company imited).—Capital 14,000*l.*, in 10*l.* shares. Objects: To quire, take over as a going concern and carry on the siness of a refined soap maker, perfumer and dealer in let articles carried on by John Sharp as "Sharp Brothers," 12 and 14 Southampton Row, Bloomsbury, London, W.C., d to enter into an agreement with B Bernheim and others. e first subscribers (who each take one share) are:—F. arwill, 25 Wanless Road, Camberwell, clerk; E. Sedgwick, Friern Road, East Dulwich, accountant; B. Bernheim, Arundel Gardens, Kensington Park, W, merchant; B. Moise, 122 Lancaster Road, North Kensington, soap agent; C. Symes, 48 King's Road, Peckham, clerk; A. S Chadwin, Oxford Road, Finsbury Park, N, agent; G. H Cain, Franklin Road, Streatham, clerk. The first directors (to mber not less than three nor more than five) are:— n H. Schmitz, senior (chairman with no remuneration), thold Bernheim (managing director for five years with a ary of 200*l* for first year, and 300*l* per annum afterwards), l Theodore C. Schmitz (who also holds office for five years the same rate of remuneration) Qualification, 1 000*l* gistered office, 18 and 19 Red Lion Square, London, W.C.

Munster Drug Company (Limited).—Registered in land with a capital of 2,000*l.*, in 1*l* shares. Objects: To quire, take over as a going concern, and carry on the siness of a pharmaceutical chemist, druggist, patentdicine vendor, and perfumer carried on under the style or n of "James Selkirk & Co" by James Selkirk. The first bscribers (who each take one share) are:—James Selkirk, Pembroke Street, Cork, chemist and druggist; Wm. Selkirk, ne address, chemist and druggist; Miss Elizabeth Selkirk, ne address; Miss Agnes Selkirk, same address; Eugene Swiney, 150 Sunday's Well, Cork, analytical and consult; chemist; John Highet, 4 Marlborough Street, Cork, mber; John Highet, junior, same address, plumber. e first directors (to number not less than two nor more than five) are James Selkirk, William Selkirk, and Eugene McSwiney. Qualification, 100*l.* Remuneration, according to the decision of the company. Registered office, 7 Pembroke Street, Cork.

Cambridge Scientific Instrument Company (Lim.).—Capital 10,000*l*, in 5*l.* shares. Objects: To acquire the business carried on at Cambridge by Horace Darwin as "The Cambridge Scientific Instrument Company," to adopt an agreement for the purpose, and to carry on the business of mechanical and electrical engineers, and scientific instrument and apparatus manufacturers. The first subscribers (who each take one share) are:—L Darwin, 18 Wetherby Place, S W., major; F. Darwin, Fellow of Christ's College, Cambridge; E. H. Griffiths, 12 Parkside, Cambridge, private tutor; Wm. N. Shaw, M.A, Emmanuel College, Cambridge; H F. Newall, M.A., Madingley Rise, Cambridge; Geo. H. Darwin, Newnham Grange, Cambridge, professor; H. Darwin, St. Tibbs Row, Cambridge, manufacturer of scientific instruments. The first directors (to number not less than three nor more than six) are Horace Darwin (chairman and managing director), Leonard Darwin, Hugh F. Newall, and William N. Shaw. Qualification, one share. Remuneration, as the company decides.

William Lees, Wallace & Co. (Limited).—Capital 6,000*l*, in 1*l* shares. Objects: To acquire, take over as a going concern, and carry on the business of varnish, paint, and colour manufacturers, drysalters, gum-merchants, produce-importers, and drug-merchants, now carried on by Wm. Lees and James Wallace at 51 and 53 Hilton Street, Manchester, and at Altrincham, Cheshire, and elsewhere, under the style of "William Lees, Wallace & Co," and to enter into an agreement with the said vendors for the purpose. The first subscribers (who each take one share) are:—Wm. Lees 6 Wellington Place, Altrincham, drysalter; J. Wallace, 428 Cheetham Hill Road, Manchester, drysalter; Alfred Deakin, 63 Nelson Street, Manchester, traveller; Wm. H. Lees, Clough House, Disley, *viâ* Stockport, traveller; A. Pearson, 63 Rosamond Street West, Manchester, cashier; J. Padfield, Cromford Court, Market Street, Manchester, printer; J. H. Cottrill, 45 George Street, Cheetham Hill, Manchester, clerk. Registered without articles of association.

Mitcham Japan and Varnish Company (Limited).—Capital 20,000*l.*, in 10*l.* shares. Objects: To acquire and carry on the business of japan and varnish-manufacturers and dealers carried on at Mitcham, Surrey, as "The Mitcham Japan and Varnish Company," and for that purpose to enter into an agreement with Alfred S. Tipson. The first subscribers (who each take one share) are:—A. S Tipson, 72 Ridgmount Gardens, W C., varnish manufacturer; Mrs. A S Tipson, same address; S. H. Lambert, 132 Fenchurch Street, E.C., drug-broker; J. Morgan, Blenheim Lodge, East Finchley, clerk; A. N. Brooke, 57 Sydney Street, S.W., clerk; A. H Royle, 5 Bedford Row, W.C, law student; H. Taylor. 6 Montem Street, Tollington Park, N., clerk. The first directors (to number not less than two nor more than five) are Alfred S. Tipson, and two others to be appointed by the subscribers. Remuneration, as the company may decide.

Valdene Chemical Company (Limited). — Capital 2,400*l*, in 1*l.* shares. Objects: To enter into an agreement with Edwin R Blundstone, Frederick R Maggs, and George H. Hedley, and to carry on the business of manufacturing chemists in all its branches. The first subscribers are:—S R. Blundstone, 8 Catherine Street, W.C., engineer (1 share); E. R. Blundstone, 14 Great Smith Street, Westminster, consulting chemist (1); W. Raymond, Yeovil, glove manufacturer (100); F. R Maggs, Yeovil, dentist (1); P W. Mayo, Yeovil, solicitor (100); E. A. Barnett, Bristol, wine and spirit merchant (100); J. Hedley, 2 Croxteth Road, Liverpool, gentleman (1). The first directors are Edwin R Blundstone, George H. Hedley (managing directors, with a salary of 156*l.* per annum each), and F. R. Maggs. Qualification of ordinary directors, 100*l.*; of managing directors, 400*l.*

Liebig's Extract of Meat Company (Limited).—The directors have issued their report, together with balance-sheet and profit-and-loss account for the year 1894. The account shows a balance of 85,316*l.* 7*s*, and out of this an interim dividend of 5 per cent. was paid on February 15

last. It is now proposed to pay a dividend of 10 per cent., being, together with the interim dividend, equivalent to interest at the rate of 6 per cent. per annum, and a bonus of 9 per cent. per annum. 1,000*l.* is to be carried to the employés' provident fund, and 6,662*l.* (14 per cent.) is set aside for European and River Plate local directors. A sum of 5,633*l.* 16*s* 3*d.* is carried forward to profit-and-loss new account. In view of the new extension of the business, the directors intend to complete the authorised capital, by issuing the remaining 1,000 shares in the course of the next few months. The ordinary general meeting will be held on June 6 at the Cannon Street Hotel, E.C.

TAMARUGAL NITRATE COMPANY (LIMITED).—The liquidator of this concern has called the final meeting for May 28, next, at Winchester House, 50 Old Broad Street, London, E.C., when he proposes to submit his accounts of the winding up. The company was registered on February 12, 1889, with a capital of 650,000*l.*, in 5*l.* shares, to acquire the nitrate grounds, oficinas, and works known as "La Patria" and "La Palma," in the province of Tarapaca, Chili, and to carry on the business of manufacturers of and dealers in nitrates, iodine, and other products. The last return, filed in August, 1890, shows that all the shares were subscribed for, and paid for in full. In the month previous the company passed a resolution for winding up and reconstruction, and on July 28, 1890, Mr. Francis H. Evans, M.P., the liquidator, gave his permission for the registration of the Tamarugal Nitrate Company (Limited).

Deeds of Arrangement.

Ellam, George, & Sons (trading as George Ellam), 35 Sand Street (described in deed as of 35 Market Street), Stalybridge, aërated-water manufacturer. Trustee, Henry Shaw, Delamere Street, Ashton-under-Lyne, accountant. Dated, May 3; filed, May 8. Secured creditors, 298*l.* 6*s.* liabilities unsecured, 1,148*l.* 3*s.* 4*d.*; estimated net assets, 475*l.* 14*s.* The following are scheduled as creditors:—

	£	s.	d.
Alexander, A., & Co., Leeds	34	0	0
Finklestone, —	50	0	0
Ford, Sarah, Ashton-under-Lyne	150	0	0
Gill, William, Stalybridge	131	0	0
Hopwood, R. & W. F., Stalybridge	19	0	0
Kilner, John, & Sons, Wakefield	49	0	0
Manchester Advance Company, Manchester	25	0	0
Redfearn Bros., Barnsley	51	0	0
Shaw, Henry, Ashton-under-Lyne	57	0	0
Warburton, Mrs., Huddersfield	17	0	0
Whitehead, John, Ashton-under-Lyne	50	0	0
Whitley & Co., Huddersfield	338	0	0

Ellisson, Charles, 11 Everton Road, Birkdale, chemist. Trustee, George Fillingham, 16 East Parade, Leeds, accountant. Dated, May 8; filed, May 13. Liabilities unsecured, 726*l.* 0*s.* 4*d.*; estimated net assets, 231*l.* 19*s.* 4½*d.* Composition of 6*s.* in the pound, payable on May 30, 1895, secured by assignment. The following are scheduled as creditors:—

	£	s.	d.
Ayrton & Saunders, Liverpool	34	0	0
Davies, John, Burton Salmon	45	0	0
Fenwick & Co., Sunderland	99	0	0
Graham, Mrs., Sheffield	50	0	0
Hirst, Brook & Hirst, Leeds	27	0	0
Houghton & Hallmark, Liverpool	25	0	0
Lofthouse & Saltner, Hull	140	0	0
Muscroft, Edward, Pontefract	43	0	0
Smith, John (Limited), Tadcaster	97	0	0
Smithies, Joe K., Barnsley	25	0	0
Tadcaster Tower Brewery Company (Limited), Wakefield	74	0	0
Young, James, Torquay	18	0	0

Harding, J., & Co. (Jane Harding, wife of Samuel Jervis Harding, trading as), High Street, Market Drayton, chemist, druggist, and grocer. Trustees, William Hill, of Adbaston Hall, near Newport, Salop, farmer, and another. Dated, May 8; filed May 11. Liabilities unsecured, 579*l.* 13*s.* 1*d.*; estimated net assets, 150*l.* The following are scheduled as creditors:—

	£	s.	d.
Bailey, Samuel, & Co., Preston	18	0	0
Cooper, Nephews, Berkhamsted	18	0	0
Goodall, Joseph H., Market Drayton	277	0	0
Hall, L., & Co., London	10	0	0
Hill, William, Newport	90	0	0
Woolley, J., & Co., Manchester	15	0	0

Marriages.

DAND—HALL.—At Queen's Road Presbyterian Church, Liverpool, on May 2 (by licence), by the Rev. John Tudhope, Arthur Dand, chemist and druggist, youngest son of the late H. R. Dand, of Wigton, Cumberland, to Sallie third daughter of William Hall, Anfield, Liverpool, and Mount Pleasant, Loch Maben, N.B.

LAVENDER—COX.—On Monday, April 22, at Christ Church, Quarry Bank, Staffs., Albert Lavender to Harriet Elizabeth, eldest daughter of the late Mr. E. Cox, chemist and druggist, of Quarry Bank.

MARRIS—BACKHOUSE.—On April 22, at St. John's Church, Carrington, by the Rev. H. L. Davis, Frederick Lake Marris, chemist and druggist, of Corporation Road, Grimsby, to Minnie Backhouse, of Carrington, Notts.

Deaths.

APPLEBY.—On Monday, Mr. C. Appleby, pharmaceutical chemist, Retford. The deceased gentleman came up to London on Thursday last week to undergo an operation, and died three days afterwards. He succeeded his father in an old-established business in Retford, and was well respected.

HAYWARD.—On May 14, at Elsmere, Alexandra Road, Reading, William Griffin Hayward, pharmaceutical chemist, in his 75th year.

PLAISTER.—On May 2, W. J. Plaister, chemist and druggist, London. Aged 59. Mr. Plaister had been an associate of the Pharmaceutical Society since 1869.

New Books.

Clowes, Frank, D.Sc. *Practical Chemistry and Qualitative Analysis specially adapted for Colleges and Schools.* Sixth edition. Post 8vo. Illustrated. 8*s.* 6*d.* (Churchill.)

Cooke, S. *First Principles of Chemistry: an Introduction to Modern Chemistry for Schools and Colleges.* Sixth edition revised. Crown 8vo. Pp. 272. 3*s.* 6*d.* (Bell.)

Darwin, F. *The Elements of Botany.* With Illustrations. Post 8vo. Pp. 246. 6*s.* (*Cambridge Natural Science Manuals.*) (Camb. Warehouse.)

Final Report of the Royal Commission on Opium. Part I. The Report with annexures. Folio. Paper covers. Pp. vi. and 184. 1*s.* 6*d.* Vol. VI. Part II. Historical appendices; together with an index of witnesses and subjects, and a glossary of Indian terms used in the evidence and appendices. Fol. Paper covers. Pp. 324. 2*s.* 6*d.* (Eyre & Spottiswoode.)

Flint, S. W. *Short and Easy Bookkeeping*: a concise system of double entry. Small 12mo., paper covers. Pp. 44. 6*d.* (Effingham Wilson & Co.)

Groves, C. E. *Chemical Technology: with which is incorporated Richardson and Watts' Chemical Technology.* Vol. II. Lighting, by W. J. Dent; Stearine Industry, by J. McArthur; Candle Manufacture, by L. Field and F. A. Field; Petroleum Industry and Lamps, by Boverton Redwood; Miners' Safety Lamps, by B. Redwood and D. A. Louis. Royal 8vo. Pp. 41. 20*s.* (Churchill.)

Groves, Ch. Edw., F.R.S., and Thorp Wm. *On Lighting, being Vol. of Chemical Technology.* (Contains fats and oils, stearine industry, candle manufacture, the petroleum industry and lamps, and miners' safety lamps.) Royal 8vo. Cloth. Illustrated. 20*s.* (Churchill.)

Hunt, S. L. *On Duty under a Tropical Sun*: being some Practical Suggestions under a Tropical Sun for the maintenance of Health and Bodily Comfort, and the Treatment of Simple Diseases. Third edition. Post 8vo. Pp. 192. 4*s.* (W. H. Allen.)

Hunt, S. L. *Tropical Trials*: a Handbook for Women in the Tropics. Second edition. Post 8vo. Pp. 464. 7*s.* 6*d.* (W. H. Allen.)

Moride, Edouard. *Traité Pratique de Savonnerie: Matières Premières, Matériel—Procédés de fabrication des Savons de toute nature.* Second edition, revised and modernised. Large 8vo. Cloth. With 115 Illustrations. 16f. (Baudry & Cie., Paris.)

Official Guide to the Museums of Economic Botany, Royal Gardens, Kew. No. 2, Monocotelydons and Cryptogams. Post 8vo. Pp. 109. Paper cover. 6*d.* (Eyre & Spottiswoode.)

Personalities.

Professor Reynolds Green and Mr. E. M. Holmes are be elected members of the Council of the Linnean ciety.

Lord Rayleigh has received the Barnard Gold Medal m the U.S. National Academy of Sciences for his disvery of argon.

We have had a call this week from Mr. H. A. Wetzel, of e firm of Parke, Davis & Co., Detroit, U.S.A., who is on his y to the Continent for a two months' tour.

Mr. Frank Haydon, L.R.C.P., Assistant Surgeon to the est London Ophthalmic Hospital, has been appointed cretary to the Court of Examiners of the Society of Apothecries, in succession to the late Dr. C. E. A. Semple.

A young chemist with a good knowledge of shorthand, a shorthand writer with a fair knowledge of the drugade, is wanted in the office of The Chemist and ruggist. Letters may be sent to the Editor (42 Cannon reet) marked on the envelopes "Shorthand."

Miss Jean Gordon, Ph.G., who superintended the Women's armacy in the Chicago World's Fair, bought the fittings the place and carried them to an office on the seventh or of the Marshall Field Buildings, 31 Washington Street, icago. She has done good business on the "no patents or gars" principle.

Dr. Charles E. Armand Semple, Secretary of Apothecries' Hall, who died on March 5, at 7 Marlborough Hill, arrow, having omitted to appoint any executor, administration to his estate has been granted to Mrs. Julia Ree llasch (wife of Henry Pallasch), of 7 Marlborough Hill, whom the testator left the whole of his property, the lue of the personalty of which is sworn at 694*l.* 1*s.* 10*d.*

There was a firm named Allen, Robinson & Co., who, in 46, carried on business as agricultural chemists at 2 Oxford uare, Hyde Park, London. If this paragraph should tract the attention of anyone who can give information ncerning that firm, or of their living representatives, we ould be glad to hear of them. We will pass any letters ich may reach us to a solicitor, who has a sum of about 0*l.* which he wants to pay over to the proper parties.

Mr. John Guy, who for the past twenty-seven years has en in business at Boughton, as a chemist and druggist, has st retired into private life. No one (says the *Chester ronicle*) is better known in the district of Boughton than r. Guy. When he came to Chester a stranger in 1868, the ctor of Boughton was kind enough to call upon him and press his regret that he had thought of setting up business ere, as he was certain to fail. People who wanted anything ways went up town for it, he added. Mr. Guy replied that he had made a mistake he had also made a double mistake, r he had got married to go there. He believed God helped ose who helped themselves, and he intended to help himself, ding, "I am a sticker." Mr. Guy "stuck" there for enty-seven years, each year becoming more prosperous, til he now feels himself able to relinquish all connection th his business, which he has transferred to Mr. Thomas rter, brother of the proprietor of the Royalty theatre.

Professor James Dewar has now replied to his critics regard to the discovery of liquid oxygen. He claims for mself only the invention of vacuum-jacketted apparatus, th which it is possible to keep oxygen liquid once it is tained. In the course of his lecture at the Royal Institon on May 9 he gave particular credit for work in conction with the liquefaction of gases to Wroblewski, who as born in Poland in 1845. As a young man he was a illiant student at the University of Kieff, but for his lvanced political ideas he was exiled to Siberia in 1863, here he spent four years, and with the powerful influence friends was set free. Leaving Russia, he wandered about om one European university to another, trying to get the ofessors to listen to a new cosmical theory he had thought it while in exile. Kirchoff turned a cold ear to him at eidelberg, and Clausius was equally unsympathetic at onn; but he found a friend in Von Helmholtz, who obtained for him a post in the laboratory at Strassburg. Here Wroblewski found his feet and soon launched on the scientific world a series of papers which showed that he was studying gaseous problems to some advantage. Later on he got to the Ecole Normale in Paris, and there assisted M. Cailletet with his investigations into the liquefaction of oxygen. This was about 1868. Wroblewski left to work at the problem on his own account at the University of Cracow, taking with him some of Cailletet's apparatus He soon got ahead of Cailletet, and was afterwards joined by Charles Olszewski (who charges Professor Dewar with plagiarism). Soon there came a rupture between them, and one tried to anticipate the other point by point. In Paris Wroblewski was denounced for picking Cailletet's brains, and the Paris Academy crowned Cailletet as the liquefier of oxygen, while Berlin voted honours to Wroblewski.

The "London correspondent" of the *Montreal Pharmaceutical Journal* gives Canadians some particulars regarding Professor W. R. Dunstan. It is stated that the professor is only 39 years of age. He attracted considerable attention when attending the practical chemistry courses of the School of Pharmacy. He was always indulging in mild explosions, and investigating bodies which had little interest to average pharmaceutical students. His studiously reserved manner did not render him popular with his fellows, but his abilities and energy were recognised by his teachers at an early date. In 1885 Mr. Dunstan succeeded Professor Redwood in the chair of chemistry. Professor Dunstan is not a pharmacist, and therefore a separate lecturer in pharmacy was appointed. About this time Professor Dunstan married the daughter of Professor Cash, F.R.S. (?), the eminent pharmacologist, of Aberdeen (?), and by his influence he obtained an appointment at Oxford to arrange the classes, &c., in materia medica and deliver some supplementary lectures. For this he was rewarded by the conferring of the M.A. (Oxon) *honoris causâ*. Professor Dunstan was elected a Fellow of the Royal Society in 1893. As a lecturer Professor Dunstan is perfectly at home, combining a distinguished manner with lucidity of exposition and considerable flow of language. But he is not popular with his students. He commands their respect, and does not want their affection. His sarcastic remarks, when aroused by an inattentive or thick-headed student, are guaranteed to rankle. Professor Dunstan must be classed as a lucky man, as without passing a single examination in his life he has attained a very high position in the scientific world, and at an early age. From his mother, who is stated to have been of Italian origin, he probably derives the indefatigable energy and tact which has enabled him to succeed where others have failed. Those who know him best have unlimited faith in his capacity, and only regard his present position as a step to further distinctions.

There is a firm of chemists in Capetown, says a writer in the *Cape Argus*, who have on one side of their glazed door the picture of an owl with the inscription "The owl is a wise bird," and on the other panel a notice to persons who may use the night bell, in which they beseech them after ringing the bell to "wait at least two minutes so as to enable the dispenser to dress himself!" In Capetown, as elsewhere, it seems night customers are in the habit of clamouring for admittance as if the house was on fire.

Yellow Dock (*Rumex crispus*).

The original appears in *Meyer Brothers' Druggist*, and is the second of a series of "Familiar Drugs."

GOLD MEDALS 1884-1885-1886-1888.

"SANITAS" TRADE MARK.

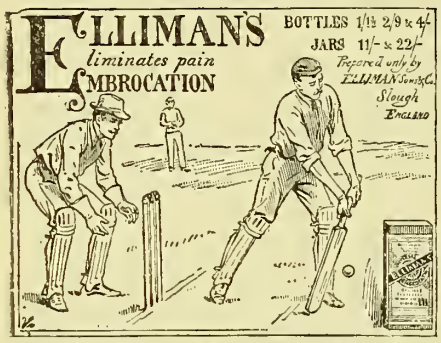
DISINFECTANTS

"SANITAS" EUCALYPTUS PREPARATIONS.

Kingzett's Sulphur Candles and Sulphugators, Preserved Peroxide of Hydrogen, Mercuric Bactericide, Eucalyptus Oils.

L. G. B. Corrosive Sublimate Pellets; "Creocide" Fluids and Powders; Carbolic Fluids, Powders and Soaps; Soluble Carbolated Creosote; Weed Destroyer, Sheep Dips, &c.

THE SANITAS CO., LIM., Bethnal Green, LONDON, E.



ELLIMAN'S £5 14 0 value, assorted or not.

10 per cent. Cash, carriage not paid.

Agreement, Bills, Books, Show Cards.

ELLIMAN, SONS & CO. Slough, ENGLAND.

PATENTS, DESIGNS, & TRADE MARKS.

Searches effected through the Classified Volumes of the Society free of charge. Registrations throughout the world. Advice as to infringements preliminary to litigation. Apply—

TRADE MARK SOCIETY, LIMITED, 1 FURNIVAL STREET, E.C.

"BE UP TO DATE"

Chemists should stock CULLWICK'S SKIN OINTMENT and BLOOD TABLETS. The demand is already created. All Patent Medicine Houses keep stock.

PROPRIETOR—

MARTIN, CHEMIST, SOUTHAMPTON.

HORA & CO.'S

SEIDLITZ POWDERS.

SPECIALLY PREPARED FOR CHEMISTS.

Howards' Seidlitz Powder.

ENGLISH ACID, FREE FROM LEAD.

Each Powder weighed by hand and guaranteed. Best folding, best paper. A better Powder cannot be produced.

A specially Engraved Label, with Customer's name, for 6-gross lots.

In Gross Boxes, 4/3 per gross; in 1-doz. Boxes, 4/6 per gross. Net Cash.

47 MINORIES, LONDON.

BUYERS OF

CASCARA

AND

PREPARATIONS

SHOULD APPLY TO

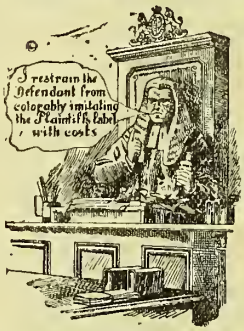
JOHN MOSS & CO^Y.

GALEN WORKS, WILSON STREET, S.E.,

Who always hold a

LARGE STOCK OF MATURE BARK.

CONDY'S FLUID contains no Permanganate of Potash.



CONDY'S FLUID

COLOURABLE IMITATIONS.

Eleven Injunctions

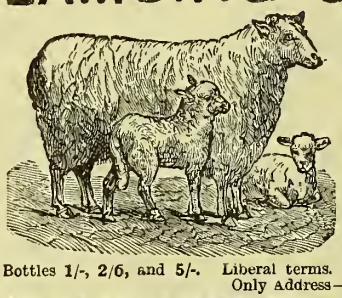
With damages and costs have been obtained against Chemists selling a solution of Permanganate of Potash in execution of orders for

"Condy's Fluid."

CONDY & MITCHELL, Ltd

67 Turnmill Street, E.C.

LAMBING SEASON



THE ORIGINAL

LUDDINGTON'S OILS.

These valuable Lambing Oils have been used by almost every Farmer and Shepherd in Lincolnshire and adjoining counties for upwards of a century

Bottles 1/-, 2/6, and 5/-. Liberal terms. Attractive printed matter

Only Address—

TOMLINSON & HAYWARD, Mint St. Works, LINCOLN.

TRADE MARK REGISTRATIONS

(HOME, FOREIGN, AND COLONIAL.)

MODERATE INCLUSIVE FEES

SEARCHES. REPORTS. DESIGNS.

T. B. BROWNE, 163 QUEEN VICTORIA ST., E.C

ITROSYL

Never loses strength, never evaporates. Is equally unaffected by the hottest climate of the tropics and by the temperature of the frigid zone.

Fletcher, Fletcher & Co., Holloway, London.

PHARMACEUTICAL COUNCIL ELECTION.

THE voting-paper for next week's election has been issued It bears the names of seventeen candidates, that of Mr J. G. F. Richardson having been withdrawn owing to his resignation. We have been looking over the postcards

eceived in our May competition to see how far they may ssist voters to make up their minds as to how they should ote. This was not the object of our competition, but when ver three hundred persons connected with the trade xpress an opinion on such an important trade-subject as he election of a Pharmaceutical Council, the opinion is worth having and considering.

The following is the order of the candidates as determined by our postcard vote:—

1. Carteighe, M, London (6).
2. Martindale, W., London (12).
3. Atkins, S. R., Salisbury (2).
4. Allen, C. B., London (1).
5. Bottle, Alexander, Dover (4).
6. Hills, W., London (11).
7. Southall, A., Birmingham (15).
8. Newsholme, G. T. W., Sheffield (13).
9. Harrison, J, Sunderland (10).
10. Richardson, J. G F, Leicester (retired).
11. Hampson, R, Sevenoaks (9)
12. Young, J. R, Warrington (17)
13. Grose, N. M, Swansea (8)
14. Savory, A L. London (14).
15. Wills, G S V, London (16).
16. Corder, O, Norwich (7)
17. Campkin, A. S, Cambridge (5)
18. Bateson, T, Kendal (3).

The figures in parentheses are the numbers prefixed to the candidates' names on the official voting-paper. The conditions of our competition do not provide for a numerical vote, and we arrive at the above order by noting the frequency with which our voters place the candidates in particular positions. The accidental circumstance that a tolerably large number of the voters sent in only fourteen names has given us diversity of figures, but these are useless for comparison. For example, Mr. Hampson gets 240 for Mr. Carteighe's 236, Mr. Bateson ties with Mr. Atkins and so on. But when we look at the votes for the first place, Mr. Carteighe is placed there far ahead of his competitors, thus:—Carteighe 72, Martindale 38, Atkins 20. The voting for the second place confirms this, Martindale running in first, and Atkins again third, with Carteighe in between In this way we arrive at the order of our poll. The fourteenth place on the poll is by our vote awarded to all the candidates; but Mr. Savory and Mr. Wills, with an equal number of supporters, head this list. Mr. Savory's title to the fourteenth place is supported by the fact that he is not placed amongst the last four on the poll, as determined by the votes for the fifteenth to eighteenth places. These are:—Wills 59, Corder 59, Campkin 104, and Bateson 106; and the significance of this is, that in the opinion of our voters these are the names which will be most frequently scratched out of the list. We should not be surprised if the prophecy turns out to be quite wrong. There is nothing like a little opposition to wake up the supporters of a candidate, and here is the sign of it for them. Moreover, Mr. Wills has been openly threatened by a circular, issued by eleven divisional secretaries of London, which does not ask members of the Society to support more than five of the six London candidates — viz., Allen, Carteighe, Hills, Martindale, and Savory. With the retirement of Mr. Richardson two new members at least will get in, and it is possible that Mr. Wills may be one of them.

THE CHEMISTS' CO-OPERATIVE SOCIETY (LIMITED).

The Secretary of the Trust Agency and Guarantee Company of England (Limited) asks us to publish the subjoined correspondence which has passed between him and ourselves. We are quite unable to understand the desire of the Trust Agency people to have their letters made public, unless it is that they are proud of them as literary productions. It surprises us that the promoters of a public company should manifest a desire to stifle independent investigation into the proposal they have made to sell certain property to the public for the trifle of 200,000*l*. This, as will be seen, is what their ridiculous threats amount to. Nor do we perceive that the company have any claim on us on the ground of fairness, on which they submit it. But we accede to their request the more willingly because we think the publication of these letters will help chemists to appreciate this crude scheme.

It is necessary to explain that, after the publication of the prospectus of the Chemists' Co-operative Society, information reached us showing that many of the chemists whose businesses had been said to have been acquired by the company were indignant at the public announcement of the fact before the purchase had been completed, and that some, at least, did not recognise the allegation that the contract to purchase had been concluded. We thereupon wrote a letter to each of the forty chemists named, as follows:—

It has come to our knowledge that certain of the businesses mentioned in the prospectus of the Chemists' Co-operative Society (Limited) as having been acquired by that company have not actually been transferred. We shall be glad if you will let us know in confidence how you stand as regards the company; if they have contracted to buy your business, and when that contract is to be fulfilled.

The correspondence which the Trust Company wish to have published had reference to the above circular letter, and is now appended:—

The Trust Agency and Guarantee Company of England (Limited),
London, 34 Old Broad Street, E.C.,
May 9, 1895.

Chemists' Co-operative Society (Limited).

Sir,—A letter, which is a distinct libel, which you appear to be issuing, has come to our knowledge. I am to request you immediately to state which business amongst the published list you allege has not been agreed to be transferred. Will you be good enough to say by what right you, as the Editor of a newspaper, claim to inquire of vendors matters which relate to themselves personally? This is an impertinence which they will probably deal with; but, as regards the malicious and libellous insinuation you have thought fit to propagate, I am instructed to require an immediate explanation and apology, failing which our Solicitors, Messrs. Ashurst, Morris, Crisp & Co., will be at once instructed.

Yours obediently,
Editor of The Chemist and Druggist, J. W. Douglas, Secretary.

May 9, 1895.

Mr. J. W. Douglas, Trust Agency and Guarantee Company of England (Limited).

Sir,—In reply to yours of this date, I direct your attention to the fact that you do not correctly quote the letter to which you refer. We have information from a number of chemists whose businesses are named in your schedule who evidently do not themselves understand that they have finally agreed to sell their businesses to your company; certainly they have not yet actually transferred them. Yours truly,
The Editor.

34 Old Broad Street, E.C., London,
May 11, 1895.

Sir,—I have your letter dated the 9th instant. The wording of your circular letter was carefully contrived, doubtless in the hope of your raising the excuse you now state, but nevertheless conveyed a false inuendo.

From communications we have received from the vendors of the businesses, the statement in your present letter is without foundation.

I call upon you to state specifically the names of the vendors whom you refer to as justifying the libel we complain of.

Yours faithfully,
The Chemist and Druggist, J. W. Douglas.
42 Cannon Street, E.C.

42 Cannon Street, E.C.,
13 May, 1895.

Mr. J. W. Douglas,
34 Old Broad Street, E.C.

SIR,—Your letter of the 11th inst. appears to be written on your own responsibility, and it is not expressed in terms which seem to call for a polite answer. We may say, however, that we should decline to give you or the company which you represent information which has been furnished to us in confidence.

Yours faithfully,
THE EDITOR.

The Trust, Agency and Guarantee Company of England (Limited),
London, 34 Old Broad Street, E.C.,
May 15, 1895.

SIR,—I have your letter of the 13th inst. You say you have received communications in confidence.

Your letter asked for them on that condition.

But your object, if it could be justified at all, which we dispute, could only be as the Editor of a newspaper, in which capacity you wrote, to make public use of the replies invited by you "in confidence": and we have information that you have stated a version of their purport, with a view to attempt to injure this Company and the "Chemists' Co-operative Society (Limited)."

We have no desire for further correspondence with you, and the matter will now pass into the hands of our Solicitors.

Yours obediently,
J. W. DOUGLAS,
Secretary.

P.S.—I request you in common fairness to publish in your this week's issue the correspondence that has passed between us.

The Editor, CHEMIST AND DRUGGIST.

The information before us fully confirms what we have stated. Of course, we do not doubt for a moment that the Chemists' Society has a clear enough contract with the Trust Agency, and it is not unlikely that the Trust Agency may have a sufficient legal contract with the chemists named. All we say is that all the chemists referred to do not understand this; that a number of them were very surprised and reasonably indignant to find the apparent sale of their businesses trumpeted forth to the world when there was no certainty that the purchase-money agreed upon could be raised; for it is doubtful if the Trust Agency, with its nominal capital of 10,000*l*, could fulfil the contracts, and we are sceptical whether J. W. Douglas, who figures in the prospectus as the contractor, is in a position to become the owner of forty chemists' shops.

The Trust Agency, it may be again explained, is the body which has had dealings with the chemists, and which now aims to transfer its purchases to the Chemists' Co-operative Society. We published the particulars of the registration of this company (which was dated November 17, 1894) on December 8. Its nominal capital was stated to be 10,000*l*., and its objects were defined thus: To carry on the business of acquiring, holding, and dealing in stocks and shares, company promoting, financing, banking, underwriting, and all kinds of guarantee and agency business; to undertake the office of trustee, receiver, and liquidator, official or otherwise, executor, administrator, guardian, committee, manager, factor, agents, &c.

DIGESTIVE FERMENTS.

DR. EDMUND MOODY SMITH, D.P.H. Cantab., of York, devoted his thesis for M.D. Edin. to a study of the present-day preparations of the digestive ferments, and his Alma Mater gave him commendation for it. We should think that the leading manufacturers of the preparations will also give Dr. Smith high commendation, for seldom has there been published such a complete justification of factory-made articles as Dr. Smith gives in his abstract of the thesis printed in the *British Medical Journal*. We cannot quote the nice things that are said about them, and must confine ourselves to stating that by laboratory experiment and chemical experience Dr. Smith testifies to the value of the following:—Armour's, Bullock's, Fairchild's, Parke-Davis's, and Wyeth's pepsins and Stern's "pepsalia." The liquid preparations commended are Armour's glycerole of pepsin, Bleasdale's peptic essence, Benger's liquor pepticus, Bullock's acid glycerine of pepsin, Fairchild's glycerinum pepticum, Hockin's liquor podophyllin. et pepsin., Lorimer's acid glycerine of pepsin, Oppenheimer's liquor euonymin. et pepsin. co., Parke, Davis & Co's glycerole of pepsin and pepsin cordial, Savory & Moore's pepsin elixir and succus pepticus, Schacht's liquor euonymin. et pepsin. co. and pepsina liquida. Papain and certain preparations of it, such as Seymour, Hamilton & Co's liquor papain. et iridin. co., Howard Lloyd & Co.'s and B Kuhn's preparations come in for exceptional praise, Dr. Smith considering that papain and its preparations deserve more attention from the medical profession than they have received. Lactopeptine, ingluvin, lactated pepsin (P., D. & Co.), Allen & Hanburys' byno-pepsin, Fairchild's peptonic tabloids, and Wyeth's elixir constitute the next group, the last being especially favoured. Then follow dry pancreatins and liquid pancreatic extracts—Armour's, Benger's, Allen & Hanburys', Fairchild's, Savory & Moore's, Parke, Davis & Co's; and 'peptonised foods"—Mosquera's beef-meal, Carnrick's beef-peptonoids, Benger's foods, Kemmerich's beef-peptone, Kühn's (or Finkler's) papoid-peption, Savory & Moore's peptonised milk-preparations and beef-peptone—which are named as things upon which medical men may rely. What strikes one most about the thesis is the things that are not mentioned; but Dr. Smith does not profess to have examined all. It would be interesting to read his thesis as a whole, and we suggest that he should have it printed for private circulation.

COMPANY PHARMACY AND THE DOCTORS.

The *Medical Press* has an editorial note on company pharmacy based on our comments. Our contemporary would not witness without a sigh of regret the disappearance of the old-fashioned chemist of our youth, but, fortunately, there is still a hope that the capital sentence, though passed, may possibly not be carried into execution.

The future of pharmacy from a business point of view will be decided by the success or otherwise of these companies, and, judging from the figures which have been placed before us, we have serious doubts whether in the long run the victims will not be the confiding public who have been induced, or at any rate solicited, to invest their money on the strength of data as to prospective profits obtained mainly, if not exclusively, from "information supplied by the proprietors." The worst of it is, as our contemporary points out, that very great injury will inevitably be inflicted on the guild, whatever may be the ultimate result of the speculation from a financial point of view. We do not see that from a medical point of view the matter is one to cause us any concern. Provided prescriptions are accurately dispensed the particular method on which pharmacies are conducted is a matter of indifference. It may even be surmised that a manager at a fixed salary will be less likely to go out of his way to trespass upon the domain of his patron the medical practitioner than the old-fashioned chemist addicted to counter-prescribing and by no means adverse to usurping the functions of the apothecary.

We should fancy the gradual extinction of the pharmacist who takes a keen interest in his art and who devotes his best energies to its improvement should be a matter of considerable concern to the medical practitioners. The next generation of them, at all events, will feel the want if British pharmacy should have then become a mere store business run by members of Parliament and company promoters with mechanically qualified shopmen who will earn their salaries but will have no interest in doing anything more.

PHARMACOPŒIA REVISION.

The Therapeutic Committee of the British Medical Association have drawn up, and are circulating to members of the Association, a list of drugs and preparations of doubtful value, with a view to getting the members to say which of them they prescribe "often," "rarely," or "never." We note amongst the galenicals four confections, three decoctions, six plasters, sixteen solid and liquid extracts, six infusions, twelve liquors, five mixtures, nine pills, two powders, three spirits, two suppositories, three syrups, fourteen tinctures, two lozenges, seven ointments, and two wines. These make up the bulk of the list, the rest being drugs and chemicals whose value can scarcely be considered doubtful, nor will anyone put liquor ammon. acetat. in that category. But this is not the time for comment, which we hope to make when we hear the result of the vote. Dr. Tirard, 74 Harley Street, W., is acting as Honorary Secretary.

FREE TRADE IN N. S. WALES.

The Hon. G. H. Reid, Premier and Colonial Treasurer of N. S. Wales, in delivering his annual financial statement in the Legislative Assembly of the colony, announced that his Government contemplated a complete change in the fiscal policy of the colony, which, under Sir Geo. Dibbs, the late Premier, had become strongly protectionist. "The meaning of the last election," said Mr Reid, "was a mandate from the people to revert to free trade. The Government were pledged to abolish the Customs duties imposed by the Dibbs Government in 1891, and they now proposed to repeal the *ad valorem* and the Dibbs specific duties, which brought in 554,000*l.*, and to make up the revenue by a national land tax and an income-tax." Mr. Reid went on to explain that "the proposed new tariff would only comprise duties on spirits, wines, beers, tobacco, and opium The Government would deal with the old specific duties imposed by the former free-trade Government differently from those imposed by the Dibbs Government, which would go at once. The old duties would be kept on for twelve months. Duties such as those on candles and kerosine would after twelve months be gradually reduced until they were abolished The sugar duties would be retained for two years, and would then be abolished gradually by reductions annually of 20 per cent."

Mr. Reid's declaration of policy was received, the cablegram says, with "loud cheers," although the Premier's plan was subsequently denounced by thoroughgoing free-traders as not sufficiently advanced. It remains to be seen whether the N.S.W. Ministry are strong enough to carry their scheme, and especially whether, in view of the gradual manner in which it is proposed to extinguish the duties, their policy will not be reversed again or brought to a stop before it has attained its object.

NEWFOUNDLAND OBJECTS TO FEDERATION.

An urgent circular has been issued in Newfoundland protesting against the proposed union with Canada. It is stated that nine-tenths of the people are opposed to such a confederation, and that their opposition proceeds to a large extent from the facts of the uncongeniality of commercial interests between the two countries, and because the free trade with all the world at present enjoyed by Newfoundland would, under confederation, and under the highly protective tariff now in vogue in Canada, restrict trade to that one country. The total amount of Newfoundland's annual imports is at present about $7,000 000, about $1,000,000 of which represent imports from the Dominion The greater portion of the imports, including nearly all the manufactured goods consumed on the island, are purchased in Great Britain, whose productions, in price, quality, variety, style, &c., are more suitable for the wants of the people. Reducing the values to sterling, it may roughly be said that, of a total value of 1,400,000*l.* sterling annually imported into the colony, 500,000*l.* sterling now comes from Great Britain, and less than half that amount (mostly for agricultural and dairy products) from Canada; and much of the latter is United States goods.

THE REFORMED LAW COURT.

"Orders executed with promptitude and despatch. Lowest prices consistent with the best workmanship. Your patronage respectfully solicited." Times are surely changing when a judge of the High Court is found putting forward an announcement of that character to attract litigants into his parlour. After hearing a case in the new Commercial Court on May 9, Mr. Justice Mathew, apparently addressing the public through the reporters, said:—

"This dispute arose towards the end of March this year. On April 18 the writ was issued. A few days after the parties came before me, and an order was made to transfer the case into the Commercial List. It was ordered to be tried on May 7—less than six weeks after the dispute arose, and three weeks after the writ. I mention these facts in order once more that litigants may be assured that, if they want a prompt and inexpensive settlement of their disputes, the procedure of the Courts admits of that course being taken. Litigants may of course, if they so choose, have delay and expensive proceedings; but that is not the fault of our procedure."

It is a very good record, and his Lordship is justified in pluming himself on it. We have much pleasure in giving the Court the benefit of this advertisement. But we can go one better in the way of advice to serious commercial men. Try not to dispute, and if this is unavoidable still try to settle your differences without the aid of lawyers. Why should they share in your hard-won earnings?

ANOTHER GOVERNMENT LABORATORY WANTED.

The *Lancet* referring to the difficulties that are raised regarding the analysis of reserve specimens of milk under the Sale of Food and Drugs Act, suggests that in regard to milk especially, or other perishable articles, it would be satisfactory if the Government could see their way to establishing a laboratory especially equipped for the immediate analysis of all duplicates taken under the requirements of the Act, whether their genuineness is suspected or not. We hope our contemporary is not serious, for the difficulty referred to has been unduly exaggerated. Somerset House can as a rule say whether an old sample of milk has been genuine or not, and if it were not that some sensitive analysts imagine that their reputation is at stake when somebody differs from them we should not have heard so much about the change in milk-samples on keeping. The case is not strong enough for a new Government laboratory. Moreover, to make it an economic possibility public analysts should be abolished; for if the certificates of the Government laboratory are to be taken as absolutely reliable, what is the use of doubling the work by engaging local men to do the same thing?

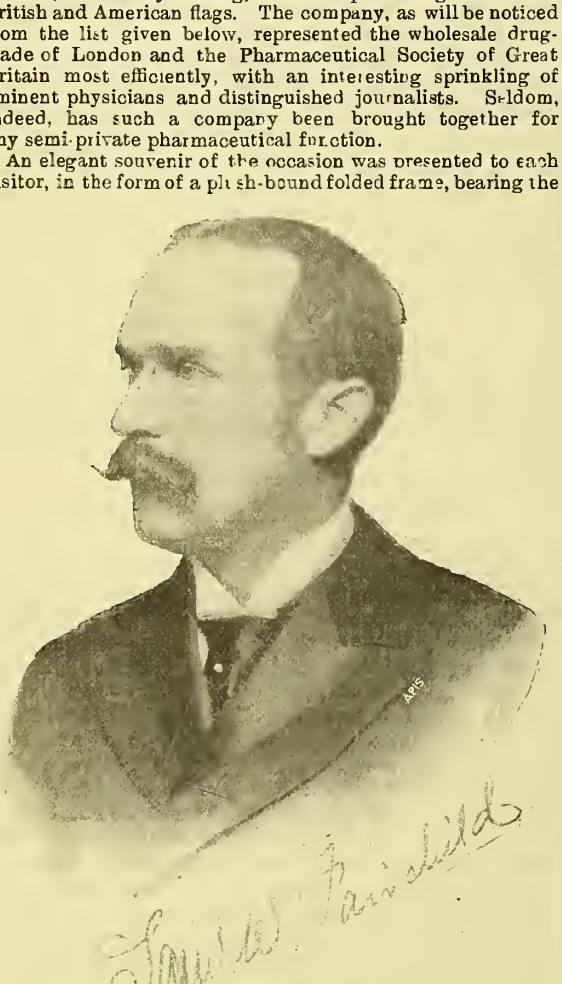
It was Whisky.—Visitor (in Maine): "It's against the law to sell this stuff, is it?" Drug Clerk: "Yes." Visitor (who has just had some): "It ought to be."

The Holborn Guardians and their Dispensers.—The joint Dispensary and Infirmary Committee of the Holborn Union brought up a recommendation at a meeting of the Guardians' Board, on Wednesday evening, that a dispenser be appointed for the infirmary, at a salary of 70*l.* per annum, to give four hours' attendance daily—viz., from 9 A.M. till 1 P.M. This was moved by Dr. Hunter, seconded by Mr. George Eade, and adopted, subject to the sanction of the Local Government Board, which sanction, by the way, is not likely to be withheld, seeing that the Local Government Board has previously impressed upon the Guardians the necessity for such an appointment.

The President of the New York College of Pharmacy.

THE presence in London this week of Mr. S. W. Fairchild, President of the New York College of Pharmacy, and head of the firm of Fairchild Brothers & Foster, gave an opportunity to Mr. Henry S. Wellcome to exercise once more that lavish hospitality which has long been associated with his efforts to bring into communion the representatives of the pharmacy of his native and adopted countries. Some sixty guests assembled in the Duke's Room, Holborn Restaurant, on Tuesday evening, under the protecting folds of the British and American flags. The company, as will be noticed from the list given below, represented the wholesale drug-trade of London and the Pharmaceutical Society of Great Britain most efficiently, with an interesting sprinkling of eminent physicians and distinguished journalists. Seldom, indeed, has such a company been brought together for any semi-private pharmaceutical function.

An elegant souvenir of the occasion was presented to each visitor, in the form of a plush-bound folded frame, bearing the



guest's monogram on the outside and his portrait inside, with the names of the company who had met in response to Mr. Wellcome's invitation to pay him respect.

Mr. Fairchild's firm has rather rapidly acquired a prominent position in the American drug-trade. It was established only about seventeen years ago. For some years previously Mr. Fairchild was a contemporary with Mr. Wellcome in the establishment of McKesson & Robbins, from which so many of the leading American manufacturing chemists have graduated. He looks a little over 40, is fair—not dark, as the portrait makes him appear—has been a frequent visitor to Europe, and has a cordial respect for England.

Mr. Wellcome presided at the dinner-table, and was supported immediately on the right by Mr. Fairchild; Mr. Ernest Hart; Dr. B. H. Paul, and Mr. E. W. Grimwade. On the left by Mr. Carteighe, President of the Pharmaceutical Society; Mr. A. Clune Fletcher, M.R.C.S.; Mr. A. C. Wootton; Mr. R. Newton Crane, barrister; Mr. John Thompson (S. Maw, Son & Thompson), and Mr. T. J. Bokenham, L.R.C.P. Official and retail pharmacy were also represented by Messrs. R. Bremridge, Secretary of the Pharmaceutical Society; A. W. Gerrard; E. M. Holmes, Curator of the Pharmaceutical Society; Wm. Martindale. Other Societies by Messrs. Wm. Chattaway, Superintendent of the Apothecaries' Hall; Kenric B. Murray, Secretary of the London Chamber of Commerce; H. H. Robbins, Chemists' Assistants' Association; Thos. Tyrer, President-elect of the Society of Chemical Industry. The wholesale drug and allied trades of London by Messrs. H. R. Arnold (Burgoyne, Burbidges & Co.); J. Arnold (Arnold & Sons); George R. Barclay (Barclay & Sons); Thos. J. Barratt (A. & F. Pears); Thomas Christy; J. Harrison Dakin; A. Domeier; J. W. Drysdale; W. H. Fassett; F. M. Fisk (Parke, Davis & Co.); G. Bult Francis, (Hearon, Squire & Francis); James Horlick; W. F. Horton (John Wyeth & Brother); Robert Hovenden; Thos. Lynch; John R. Morgan (Treacher & Co. Bombay); John Moss; L. Newbery (F. Newbery & Sons); J. Morgan Richards; Chas. Umney (Wright, Layman & Umney); Thos. Whiffen. Messrs. H. Helbing and A. Gordon Salamon were there for analytical and technical chemistry. Journalism sent a contingent in Messrs. Robert Barr, editor of the *Idler*; Lesser Columbus, editor of *Commerce*; Frank C. Higgins, editor of the *London American*; Edw. Linstead, *Pharmaceutical Era of New York*; Peter MacEwan; Ballard Smith, London editor of the *New York World*; A. A. Tindall, editor of the *Medical Press and Circular*; Horace Townsend, London editor of the *New York Herald*, and W. P. Want. The staff of Burroughs, Wellcome & Co. was represented by Messrs. A. W. Ball, W. H. Kirby, A. Searl, R. Clay Sudlow, and W. Lloyd Williams. Mr. Searl and Mr. Sudlow were Vice-Chairmen.

Two formal toasts were set down on the programme to follow the dinner. The first was "The Queen," and the second "The President of the United States." The speeches introducing these toasts were unexpectedly bright and humorous. "The Queen" was proposed by Mr. R. Newton Crane, an American barrister, now practising in London, in a racy and happy speech; and "The President" was dealt with by Mr. Robert Barr, the editor of the *Idler* and the well-known "Luke Sharp" of the *Detroit Free Press*, in an inimitably humorous style. Mr. Barr said he had understood he was to reply for one of the Muses, and he had carefully adapted his wines to his subject. Suddenly he had been called upon to speak on Mr. Grover Cleveland, and the same course of wines was not suited for the two subjects. However, he proceeded to relate a visit he paid to the White House, where he found Mr. Cleveland in his shirt-sleeves hard at work vetoing Bills. After a few words of a commonplace character, Mr. Barr said, Mr. Cleveland seemed to have nothing more to say to him, so he took his leave; "therefore," he said, "I give you the toast of the President of the United States."

A very warm reception was given to the toast in honour of Mr. Fairchild, which Mr. Wellcome proposed with pleasant mention of their early association. Mr. Fairchild showed by his response how much he appreciated the compliment which was paid to him. Quite as hearty was the reception of a toast proposed by Mr. A. Clune Fletcher later in the evening, expressing the warmest good wishes of the friends present towards Mr. Wellcome. Mr. Ernest Hart and the President of the Pharmaceutical Society contributed interesting homilies on "Universal Pharmacy," tracing its history from the shot-gun period to that of tabloids. Commerce, especially in relation to the drug and chemical trades, was discoursed upon by the Secretary of the Chamber of Commerce, by Mr. Thomas Tyrer and by Mr. E. N. Grimwade; and Mr. Lynch wound up the oratory of the evening by a rattling speech to the glory of the Press, manifesting a true appreciation of its services and a sufficient veneration for the merits of the various journals represented, from THE CHEMIST AND DRUGGIST downwards. This toast was acknowledged by Mr. Horace Townsend, of the *New York Herald*.

MRS. HODGE: "I'm surprised to see yer a-buyin' that 'ere quack medicine, Mrs. Gubbins, when you prays every Sunday to be delivered from all false doctrin', heresy, and schism!"

Constructive Criticism of the British Pharmacopœia.

IX.—MICROGRAPHIC PHARMACOGNOSY.

By WILLIAM KIRKBY, F.L.S.,

Lecturer on Pharmacognosy in the Owens College.

HE numerous criticisms which have been passed upon the Pharmacopœia, and the thousand-and-one suggestions ich have been put forward for the one that is to be, have de it very evident that scientific knowledge—chemical, anical, and pharmaceutical—is increasing at a very rapid e. This accelerated rate of increase in knowledge makes mperative that the next Pharmacopœia, whenever it may issued, must be thoroughly abreast of the science of the y. But it must contain no articles which have not been oved useful; no standards which cannot be reasonably mplied with; no processes which have not been tested perimentally; and no statements which have not been ified.

Recently it has not been difficult to discern manifestations a feeling that the time has arrived for the severance of e reverential tie which has hitherto united the British armacopœia to the trinity of Pharmacopœias from which sprang; that at last we may, without fear of being dubbed noclasts, take down some of the imposing pharmacopœial ages and inquire as to the reality of their traditional tues. And there have not been wanting indications of a sire to keep out of the leading-strings of other nations, d have a Pharmacopœia constructed according to British eas and requirements.

If the trend of criticism and feeling has been correctly prehended, and the verified conclusions of science are to applied to the making of a Pharmacopœia in accordance th our own ideas, irrespective of the Pharmacopœias of her countries, we may pertinently, I think, discuss the irability of including the micrographic characters in the scriptions of crude drugs.

Before venturing to suggest the addition of any new atter to the already rather bulky volume, it ought to be own that the "characters," as set forth in the Pharmacoeia, of vegetable drugs are either defective in themselves, that they can be so improved in precision as to be more eful than heretofore. The difficulties which accrue from e necessity of using words and phrases current in our daily eech for the description of the macroscopical characters of ugs, can only be properly appreciated by those who tempt to write an intelligible description, or who try to quire a clear idea from a description, of an unknown ug. Everyone has his own standards of comparison taste, odour, colour, and texture. Greater precision uld, no doubt, be obtained in framing the pharmapœial characters by more frequently introducing measurements; but then the danger would arise that samples drugs which did not exactly conform to the standard ould be liable to be regarded as unofficial. Allowance ust be made for natural variations—variations due to good d bad seasons, difference in habitat and in modes of ltivation—in form, size, colour, and texture, which greatly gravate the difficulties we have already noticed. Hitherto rtain characters of drugs have been described which are very inferior value, and the absence of which may have prejudicial effect. I allude to those features which are e to methods of collection and preparation for the market. ey may be grouped under the term "adventitious characters." There is no virtue in calumba-root being sliced transversely, or in cusparia-bark being "obliquely cut on its inner edge," or in gentian-root being "in cylindrical pieces or longitudinal slices." Indeed, gentian-root, rhatany-root, and pareira brava are occasionally met with in transverse slices, and such samples are surely quite as much entitled to official rank as those which conform perfectly to the pharmacopœial descriptions. Besides, if any official value attaches to these adventitious characters, an inducement is offered, in these days of keen business competition, to the collectors to confer them upon substitutes which may happen to simulate, more or less nearly, the other characters of the genuine article. False sumbul-root is sliced transversely in precisely the same way as the true one. The comparative value which alone attaches to descriptions of drugs drawn up in terms of everyday speech precludes the possibility of the establishment of reference standards for substances which have yet to be discovered. We see this when we consider the history of cubebs. There was a time when it sufficed to distinguish them from other substances by a reference to the non-articulated stalk. When a scarcity arose everything which had a similar stalk was eagerly gathered and put upon the market. And, in consequence, it has now become necessary to refer to the proportionate length and form of the stalk. Of course our ignorance is so unlimited a quantity that it is quite impossible to forecast the contingencies even of the morrow, but by adopting new standards they may be much better provided for than at present.

It is plain, therefore, that the pharmacopœial descriptions of the macroscopic characters are defective, inasmuch as they admit of varying interpretations by different persons, and they are lacking in precision in consequence of the necessary use of phrases which are intended to cover the natural variations of the drug. While it will always be requisite to have these descriptions, there is no doubt that any available means which is forthcoming to avoid these difficulties and dangers should be used without hesitation.

The anatomy of plants has been sufficiently well studied for botanists to understand that the structure of a particular species is as constant as the structure of a particular species of animal. Here, then, is the means by which the descriptions of vegetable drugs may be at once rendered more elastic and more precise. The account of the general characters may be so phrased as to include all natural varieties of the drug, and the microscopic characters will effectually control the genuineness of the article.

There are several decided advantages which would be gained by the use of micrographical descriptions. The first is that the structure of drugs is so constant, and so free from erratic variations, as to provide a good means of recognising drugs in almost any condition. Such variations as may occur are always in well-known directions, and are usually to be referred to the age of the specimen. Dandelion-root always has a xylem column containing scalariform vessels and wood parenchyma, but no fibres; a narrow primary cortex and a broad secondary cortex with concentric zones of soft bast associated with laticiferous tubes. In ac-

cordance with the laws of growth, the secondary cortex will vary in thickness with the age of the root; it follows, from this, that the number of rings of laticiferous tubes is also liable to variation. But it is easy to see that there is no difficulty, in a case like this, of giving such a precise and succinct account of the anatomical characters of the drug as will serve to identify almost the smallest fragment.

A further gain would be the elimination, to a very great extent, of errors of interpretation, because the terms used in anatomical and histological botany are not so elastic as those used in describing the general characters of drugs. The terms of the latter category belong to our common speech, and frequently acquire a value peculiar to the individual; whereas the former have strictly limited meanings, and are defined with almost as great exactness as the reactions made use of in chemical analysis.

A much greater and more practical value attaches to the inclusion in the Pharmacopœia of the histological characters of drugs. Hitherto scarcely any official directions have been given for ascertaining the purity of powdered drugs. This will be at once remedied by making reference to the distinguishing histological features. Mustard, rhubarb, ipecacuanha, and scammony are liable to fraudulent and accidental admixture with other substances. Powdered spices, such as cinnamon, cloves, and pepper, are particularly in danger of being adulterated The behaviour of these powders with solvents, and the results obtained by chemical investigation of them, will generally indicate their approximate purity. The most definite information, however, can, in nearly all cases, be obtained by a microscopical examination, and, where the amount of admixture is relatively small and chemically inert, it is the only means of detecting it.

The value of anatomical knowledge for practical purposes is very limited when we have to discriminate between two substances obtained from closely-allied plants, such as the different kinds of strophanthus-seeds; and it is of doubtful utility in the recognition of the commercial varieties of rhubarb-root. There will, therefore, always be a need for the careful description of the general characters of crude drugs.

We may safely conclude that it is highly desirable that in the forthcoming British Pharmacopœia such official crude drugs as have been sufficiently accurately investigated shall have a micrographical description as well as an account of the general characters. The amount of information it will be necessary to give under this heading will vary in nearly every instance. Some drugs—as ipecacuanha—have gathered around them so many substitutes, which are sometimes closely allied to them, that it will be requisite to give a pretty full description of the anatomy and histology; while for other drugs—as pomegranate-bark—a much shorter description will suffice. In all possible cases the principal structural features, as recognised by pharmacognosists, should be succinctly set forth, special prominence being given to those that are peculiar or serviceable in distinguishing the drug from other substances. As in chemical analysis, so in microscopical analysis, negative evidence is frequently of very great value; and in many cases it will be necessary to refer to the absence of certain elements—in dandelion-root there are no fibres, arrowroot contains no compound granules, hemlock-fruits have no vittæ, and linseed contains no starch.

In order to understand how small a demand the suggested improvement would make upon the space of the Pharmacopœia, we may notice a few individual drugs, and state, without entering into full particulars, the characters which should receive recognition.

Roots.

Pareira-root.—The few, nearly concentric, zones of vascular bundles, with vessels having wide lumina; phloem having a straight line of union with xylem; pith, none.

Pellitory-root.—Cortex with two rows of resin cavities; medullary rays with four rows of resin cavities.

Gentian-root.—Cortex without fibres; xylem having scalariform tracheæ and wood parenchyma, but no fibres; no starch.

Belladonna-root.—The absence of stone cells and bast-fibres; the presence of numerous receptacles containing sandlike crystals of calcium oxalate.

Rhizomes.

Arnica-rhizome.—The single row of resin receptacles near the inner limit of the cortex; the large pith; rootlets with a thick cortex containing one row of resin receptacles.

Serpentary-rhizome.—Narrow cortex; the eccentric development of the stele, the longer bundles in transverse section being on the lower side.

Woods.

Guaiacum-wood.—The large, frequently isolated, vessels; the narrow shallow medullary rays; the very narrow concentric rings of wood parenchyma.

Quassia-wood.—Vessels in small groups; the deep medullary rays from one to four cells broad; the wood parenchyma in rather broad zones; the chambered crystal fibres.

Barks.

Cinnamon-bark.—The closed ring of sclerenchyma consisting of fibres and cells; the secondary cortex with oil and mucilage receptacles; the isolated fibres in the phloem; the absence of raphides from the medullary rays.

Pomegranate-bark—The gigantic stone cells in the phloem; the absence of fibres; the regular arrangement of the numerous crystal sacs; the narrow medullary rays.

There is no need to give more examples, but it would be very easy to draw up similar micrographical characteristics for nearly all the official drugs. Wherever it is desirable to give measurements, as in the case of starches and a few drugs, these should be stated either in fractional parts of the millimetre or in microns (μ).

Drugs that are frequently used in the form of powder deserve the bestowal of some attention upon the elements which go to make up the tissues, as well as upon the cell contents. In powdered rhubarb the scalariform vessels, the stellate crystal masses, and the small starch granules with the distinct hilum should be recognised, and any admixture containing any other lignified elements or different crystals or starch granules would be detected with comparative ease. Cinnamon is very liable to adulteration with foreign starches, which the microscope readily reveals. Ginger, tragacanth, gum acacia, pepper, linseed, jalap, ipecacuanha, cubebs, cinchona, capsicum, and a few others should be treated in the way suggested.

Should drawings of the microscopic structure of drugs find a place in the Pharmacopœia? Doubtless it would be an advantage to be able to refer to standard drawings, but the drawings would not be an essential addition to such textual matters as I have been advocating. They would merely be a visual commentary upon it, and, therefore, unnecessary. If the Pharmacopœia were primarily a student's text-book this argument would not have much, if any, value; but it is primarily a standard for the kind and quality of drugs. Besides, they would add so greatly to the cost and bulk of the book as to impair, rather than enhance, its extended usefulness.

In conclusion, let me briefly recapitulate my suggestions:—

1. Adventitious characters of drugs should be deleted.
2. That in conjunction with more precise descriptions of

e macroscopical characters there should be micrographical escriptions.

3. That in the case of powdered drugs the histological ements and cell contents should be described.

4. That when desirable and possible measurements should given of the histological elements and cell contents.

Oleate of Ammonia as a Cleansing-agent.

MR. FRANK EDEL speaks in warm terms of the valuable properties of oleate of ammonia as a cleansing-agent. e abstract the following particulars from his paper on the bject in the *Bulletin of Pharmacy*. In making the oleate is necessary to use spirit to get the solution clear, and it ill, of course, be understood that the preparation is not a re oleate:—

	Oz.
Oleic acid	1
Spirit	1
Solution of ammonia	14

Pour the acid into a bottle; mix the spirit and ammonia, and pour into e bottle. Cork tightly, and allow to stand a week or more until saponification is complete.

This furnishes a product superior to that made by any her means tried. It can be diluted with ammonia or water wanted, and is the product meant to be used in the llowing:—

For Cleaning Glassware in Laboratory.

	Oz.
Powdered pumice-stone	2
Oleate of ammonia	3
Solution of ammonia to make	16

Shake before using.

Liquid Shampoo.

	Oz.
Oleate of ammonia	1
Borax	½
Eau de Cologne	1
Glycerine	1
Water to	16

This will be found excellent, and not nearly so harsh on e scalp as the ordinary ammonia shampoos.

For Cleaning Cloth

e following will be found excellent, and shows little disposition to separate:—

	Oz.
Oleate of ammonia	2
Solution of ammonia	2
Ether	1
Benzine	5
Chloroform	1

Mix the ammonia and oleate; shake well, and add the ether; shake, and d 5 oz. of benzine; agitate thoroughly. Then add 1 oz. of chloroform d shake well. Allow to stand a few minutes, and shake at intervals, hen a mixture having the consistency of cream and showing but little ndency to separate will result.

Furniture-polish.

	Oz.
Oleate of ammonia	2
Solution of ammonia	2
Shellac varnish	6
Boiled linseed oil	6

Mix the ammonia and oleate, add the shellac, and shake well; then add l, and shake thoroughly.

his is an excellent furniture-polish, and should be applied ith cloth and rubbed till dry. [We should think that raw nseed oil would be better.—Ed.]

Quite Elegant, You Know.—Mr. Joseph Smith has cepted a position as prescriptionist at Mr John Brown's. hat is how some American drug-journals tell the world that ssistants have made a change.

Scientific Notes.

Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected, and Translated.

Chloral Hydrate with Phenols and Stearoptenes.

Professor Ed. Schär communicates to *Archiv der Pharmacie* (233, p. 5) a very long paper dealing with the liquefaction which results when chloral hydrate and camphor or similar substances are brought together. The first part of the paper is historical, and summarises the observations made from the time of J. F. Brown in 1874 (who appears to have been the first to notice the phenomenon). He then goes on to describe experiments with phenols and stearoptenes, noting the depressions in temperature which result on admixture of the solids, and describing the behaviour of the solutions towards cyanin. The paper does not, however, throw fresh light upon the composition of these liquids, of which chloral-camphor is a type.

Intra-European Galls.

An examination by F. Koch of the galls of *Quercus pubescens* and *Q. sessilis* growing in the middle of Europe shows that their chief characteristics are a moderate ash yield (1·3 per cent., as compared with 1·5 per cent. from Aleppo galls and 2 per cent. from Chinese), a high sugar content (21·49 per cent, but galls collected in January yielded 51·8 per cent.), and the tannin value was low—viz., 14·8 to 16·8 per cent. The determinations were made upon the fresh substance (containing 85 per cent. of moisture), but the figures are calculated for the dry. The most interesting point about the research is that while the sugar content decreases as the galls ripen the tannin remains practically the same. It also shows Guibourt's statement that the galls contain 65 per cent. of tannic acid to be wrong. Details of the research are given in *Arch. der Phar.*, 233, p. 48.

Luteol: a New Indicator.

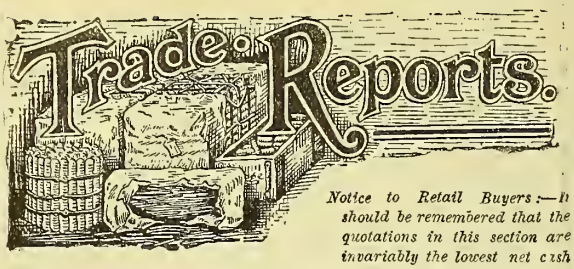
This substance is oxychlordiphenyl hinoxalin, and is recommended by Dr. W. Autenrieth as an indicator in alkalimetry (*Arch d. Phar.*, 233, p. 43). It is insoluble in water, but dissolves readily in alcohol. For analytical purposes a solution is made containing 1 gramme (15 grs.) in 300 c.c. (8 oz.) of rectified spirit, and of this solution three, and at the most eight, drops at a time. The luteol solution gives a yellowish colour with alkalies, and is even more sensitive to ammonia than Nessler's solution. For example, a single drop of ammonia solution was mixed with a litre of water, and to 5 to 10 c.c. of this mixture a few drops of the luteol solution was added, the result being an evident yellow colour, while Nessler's solution only showed a reaction after a short time. Of course, luteol reacts similarly with fixed alkalies. It does not react with free acids.

Rare Metals.

During his recent Royal Institution lecture on the "Rarer Metals," Professor Roberts-Austen stated that granulated aluminium has the property of withdrawing oxygen from the oxides of the rarer metals, and so reducing them to the metallic state. This is accomplished at a comparatively low temperature. By this means he has obtained zirconium, vanadium, uranium, manganese, titanium, and tungsten. The alumina formed has the further advantage of protecting the liberated metals from oxidation during fusion. It is remarkable that aluminium withdraws the oxygen from red oxide of lead with explosive force.

Amines as Antiseptics.

Schering's factory at Berlin have made a new departure in combining certain of the amines, such as ethylene-diamine, with the cresols, with the object of overcoming an objection which has hitherto obtained regarding the cresylic and phenolic compounds—viz., their precipitation by albuminoids, and consequent non-activity when used in surgery. The amine and cresol are first united, then a silver salt is added, whereby a compound is obtained which dissolves mucus.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

---

42 CANNON STREET, E.C., *May* 16.

SUCH excitement as has reigned in certain branches of the produce trade this week has not been known for many years. For two or three weeks past we have referred to the "boom" in camphor now in progress, and to the part taken in that movement by a well-known firm of produce-brokers. The camphor-boom has extended, in the course of the last five or six days, to several other articles—notably, shellac and Zanzibar cloves, and, in a less degree, to pepper. The whole of the business is being carried on by the same brokers who have driven up camphor, and who must represent an exceedingly wealthy, and certainly a most venturesome, principal. The scene in the Commercial Sale Rooms when the buying broker appears and books thousands of piculs of camphor or bales of cloves in a few minutes is one of intense interest, even more, perhaps, to the unconcerned outsider than to the scores of persons who throng around the great operator in the hope of being able to secure some financial advantage. All sorts of rumours are naturally going round concerning the personalities of the broker's principals and their plans. All this "business" is, of course, mere speculation, and rather argues a diseased condition of trade than otherwise, but, apart from this passing madness, there is a decided undercurrent of firmness in the drug and chemical markets. At the drug-sales to-day a fairly good spirit was shown, and the following enumeration of changes in the market position of drugs shows a decided tendency towards higher rates:—Advanced: Camphor, jalap, ipecacuanha (Rio), insect-flowers, finevelly senna, Jamaica sarsaparilla, cod-liver oil, star-anise oil, lime-juice, dragon's-blood and English lavender oil. Unaltered but generally firm: Cape and Curaçao aloes, colocynth, rhubarb, balsam Peru, beeswax. Lower: Cardamoms, ergot of rye, gamboge, gum elemi, and menthol. In the chemical-trade heavy articles are firm. There has been a good business in chlorate of potash. Cream of tartar is dearer, citric and tartaric acids very firm, refined camphor and mercurials higher, and quinine also dearer. Caffeine is fairly steady; cocaine lower. Quicksilver has advanced; but sulphate of ammonia is lower. In articles allied to the drug-trade the enormous rise in Zanzibar cloves and shellac has already been mentioned. Ginger, cassia lignea, pepper, pimento, and gambier are also dearer. The bank-rate remains at 2 per cent.; bar silver after several slight fluctuations, closes at 30⅝*d.* per oz.

The Liverpool Drug Market.

Our correspondent, writing on May 15, reports that Turkey sorts of *Gum acacia* are still in limited request at previous rates, *Brazilian acacia* is inquired for, and bids have been refused for a quantity—thirty bags sold at 21*s.* 6*d.* per cwt. The improvement in the position of *Canary-seed* has continued, and the price of 40*s* per qr. has been paid for good *Turkish* seed. The market for *African ginger* is very steady, and further sales have been effected at 27*s.* to 27*s.* 6*d.* cwt. *Chillies* are very flat at the moment, and a mixed parcel has been disposed of at 22*s* 6*d* per cwt., prime red (*Sierra Leone*) would be worth about 27*s.* per cwt. The *Chilian beeswax* withdrawn from auction last week has since found buyers at the sellers' limits, and the market remains steady at late rates—viz 8*l.* 15*s.* to 9*l.* for prime, and 7*l* 15*s.* to 8*l* for grey. In *Chilian anise* sales have been made during the week at 22*s.* 6*d* per cwt., but holders have intimated their intention of not receding beyond this figure. No further business of importance has taken place in *Tonca beans*, but holders are very firm at the prices lately ruling. *Cream of tartar* has followed the advance abroad, and first white crystals are held for 69*s* to 70*s* cwt. In *Kola nuts* several parcels have changed hands at prices ranging from 5½*d.* to 9½*d.* per lb. *Turpentine* is inclined to move up at 22*s* 9*d.* cwt. Notwithstanding arrivals the *Castor oil* market is steady at the prices ruling last week—viz. *Good Seconds Calcutta* 2⅛*d.* to 2¼*d.* lb., *First pressure French* 2$\frac{11}{32}$*d.* to 2$\frac{1}{16}$*d*, Madras 2⅛*d* lb. Part of the recent arrival of *Cascarilla* has been sold at 27*s* 6*d.* cwt. for small brown. *Egyptian Fenugreek seed* is held for 6*l.* 10*s.* to 7*l.* per ton, according to quantity and quality.

The Amsterdam Market.

Our Amsterdam correspondent, writing on May 15, states that in *Cassia fistula* the market is quite unaltered. No business of any importance is passing, and the drug remains altogether neglected. *Cubebs* are also unchanged. The demand for *Benzoin* has fallen away altogether. None of the lots bought in at the last auctions have been sold. Several new shipments have arrived, but up to the present these have not been offered for sale. *Gum copal* is firm. At the last public auctions in Rotterdam a fairly animated tone prevailed, the bulk of the gum offered finding buyers at full prices, and occasionally above valuation. *Gum damar* is also firm, with ready sales, especially in ordinary qualities. *Cajuput oil* is still offering at 115 cents per bottle. About 1,000 bottles have been sold at that figure.

The Scotch Chemical Market.

Our correspondent, writing on Wednesday, states that the present outlook is not quite so hopeful as at the date of last writing. Shipping orders and inquiries are moderate. There is no actual change to note in values. The current quotations are: *Alum*, in lumps, 5*l.* 10*s.* per ton net Glasgow. *Borax*, English refined, 20*l.* per ton net Glasgow. *Boracic acid*, English refined, 30*l.* per ton net Glasgow. *Sugar of lead* (brown) 16*l.* per ton, less 2½ per cent. Glasgow. *Sugar of lead* (white), 25*l.* per ton, less 2½ per cent. Glasgow. *Nitrate of lead*, 19*l.* per ton, less 2½ per cent. Glasgow. *Bicarbonate of soda* in 1-cwt. casks, 6*l.* 15*s* per ton net Tyne; ditto 5 cwt. casks, 6*l.* 10*s.* per ton net Tyne. *Bichromate of potash*, 4½*d.* per lb. net for Scotch and English deliveries; for export 4¼*d.* per lb. net f.o.b. Glasgow. *Bichromate of soda* 3¾*d.* per lb. net for home deliveries, export, ¼*d.* per lb. less.

The Newcastle-on-Tyne Chemical Market.

The tone of the heavy chemical market is improving slightly, but as yet there is no distinct advance in values to be reported. As regards business in the alkali trade, it may be considered fairly good all round, and especially for export. *Hyposulphite of soda* maintains its firm position at unchanged rates, as also does *Chloride of barium*. For pure white *Sulphate of alumina* and *Blanc fixe*, much better orders have latterly been passed. *Bleaching powder* is just a shade firmer, and fair inquiry has been experienced. *Soda crystals* and *ash* are dull, but there is a somewhat better request for *Bicarbonate of soda*. *Recovered sulphur* in 2-cwt. bags 4*l.* to 4*l* 5*s* per ton net, *Chlorates* are easy, *potash* and *soda* being 4½*d.* and 6*d* per lb net, respectively. *Yellow prussiate of potash* is somewhat on the decline. The nominal price is 8*d.* per lb net, but for fairly good orders some slight reduction could no doubt be obtained on this. *Sulphocyanides* are quiet. *Silicate of soda* is now offered at rather lower

es, 140° Tw. 3*l* 7*s*. 6*d*. per ton net, 100° Tw. 3*l*. per ton and 75° Tw. 2*l*. 12*s*. 6*d*. per ton net.

New Alkali-works.

Messrs. Brunner. Mond & Co. (Limited) are now erecting works at Teesside, at the mouth of the Tees river, where land is obtainable very cheaply. This new departure is on the same lines as that of the United Alkali Company (Limited), who have recently begun to build works at Fleetwood. The establishment of the Teesside factory, however, will not affect the continued existence of Messrs. Brunner, Mond & Co.'s existing works at Northwich.

The Honduras Sarsaparilla Industry.

Next to bananas, sarsaparilla is the principal export-article from Puerto Cortéz, in Honduras. In the year ended August 1, 1892, which is the last of which statistics have been published, the exports amounted to 62,561 lbs The whole of this goes to the United States, whence the British and continental markets are supplied. The British Consul at Puerto Cortéz is strongly of opinion that the whole of it would go to London if there were direct steam-communication with that city, and he thinks that the bulk of the goods now imported from the United States for the Honduras market would also, in that case, be purchased in England. The price paid at Puerto Cortéz to the collectors of sarsaparilla varies, according to quality, from 7 to 9 soles per arroba (14*s*. to 18*s* per 25 lbs.). The sarsaparilla has to be assorted, made up into rolls, and packed in hide-covered bales before shipment, which adds 5c. per lb. to its cost. An export-duty of 8 per cent. on a conventional value of 16c. per lb. is also charged on the drug. It appears from these figures that the lowest price at which Honduras root can be shipped from the central American coast is 9¾*d*. per lb. (collecting 6½*d*, packing, &c., 2½*d*., export-duty, ¾*d* per lb.). It has then to be shipped to New Orleans or New York, and thence to Europe. The present London market rate of 1*s*. 2*d*. to 1*s*. 3*d*. per lb. can, therefore, only leave a moderate profit to those concerned in the business.

The Amsterdam Cinchona market.

Writing on May 9, our Amsterdam correspondent observes:—"To-day's cinchona-bark sale was a disappointment to most parties concerned. Although opening pretty firm, the feeling passed off as the sale proceeded, and the result was an average of only 2·92 c.

"Druggists' barks were very dull, and except for fine red qualities there was very little demand.

"Mr. Watering, the Amsterdam merchant who has lately returned from an inquiry into the state of the cinchona-market in Java, states that to some extent he has a good opinion of the future of the article. There is no doubt (he tells me) that Java cannot go on shipping the quantities it is sending at present, as uprooting is being carried on to a great extent, and already there are some 5,000 bouws less under cultivation than formerly. At the same time it must not be expected that this means that Java cannot send the same quantity in 1895 as in the preceding year, as cinchona is such a peculiar article that the yearly crop can hardly be controlled letbl uite ptoits I eso si q the crop of bark remain on the trees a year or two, whilst the owner of a plantation has it in his power to increase the crop at his will at any given moment.

"Cinchona cannot be grown at the present prices even in Java, and, therefore, every extra quantity shipped means plucking the hen instead of marketing the eggs. The more Java sends now the sooner the hen will be done for, but how long this may last is difficult to say.

"There are rumours that the planters are taking more interest in the erection of the quinine-works in Java, and that, after all, the factory is likely to be founded, even if on a less extensive scale than was proposed; but more will be known of this in a short time.

"Mr. Buchler, the Brunswick quinine-maker, is now in Java. The exact object of his visit there is not known at present, but it is thought that it is in some way connected with the Java quinine-works."

More about Formosa Camphor.

A recent official report from Tamsui (Formosa) says:—"The trade in camphor is rapidly growing in importance. The export in 1893 was much the largest on record, amounting to 32 134 cwt., against 15,440 cwt for 1892. The last-named figure, in consequence of disturbances on the border, was smaller than in 1891 To all appearance this branch of business is destined to increase still more in the near future. As conducted in North Formosa the business requires the command of considerable capital on the part of the exporter, and is attended with a good deal of pecuniary risk Heavy advances have to be made for stills and current expenses. Unfortunately, there may be plenty of advances without any returns, either in cash or camphor, if the savages should 'come out of the grass,' as it is locally termed, and raid the spot with fire and spear, leaving the distillery a heap of ashes with a fringe of Chinese corpses"

From Tainan, the other Formosan treaty port, it is stated that the business in camphor is steadily increasing, 7,530 cwt. having been exported in 1893, against 5,441 cwt. in the previous years; and this notwithstanding a vexatious interference on the part of the camphor authorities in the interior of the island with the business of a leading British firm, to overcome which required much perseverance and determination on the part of the British Consuls.

During 1893 new districts for working camphor have been opened up—viz, Yun-liu in the beginning of the year and Kagee at the end. An examination of the trees to the south of the island proved unsatisfactory, and operations there were discontinued. Districts to the immediate east of Tainan-fu, but far inland, are being tried, but the absence of roads is a bar to operations.

ACACIA.—Very quiet. Of 32 packages picked gum from *Trieste* 4 sold without reserve at 90*s*. for yellowish grey small to medium hard, and at 80*s*. for rather duller quality; small yellow but clean grain also realised 90*s* per cwt Several lots of *Turkey* sorts from Suez were bought in, bids of 45*s*. being refused for hard glassy partly amber mixed, and of 52*s* for fair pale dusty mixed.

ACID (CITRIC).—Steady, but unchanged, at 1*s*. 1¾*d*. to 1*s*. 2*d*. per lb.

ACID (TARTARIC)—Firm, at 11*d*. per lb. for B.P. on the spot, and 11½*d* per lb. forward.

ALOES.—*East Indian* aloes was in small supply, and none sold at the auctions, 81 kegs being all bought in; 70*s*. per cwt. is asked for fair brown soft *Socotrine*. Of 35 cases *Cape* aloes, 30 sold at very firm prices. 23*s*. 6*d*. to 24*s* for good. bright hard, 22*s*. to 22*s*. 6*d*. for fair seconds, and 20*s* for partly dull and drossy mixed; the small remaining quantity was firmly held for high prices. *Curaçao* aloes in fair demand at steady prices; 251 packages, mostly gourds, were all sold at 43*s*. for good brown liver, and from 21*s*. to 26*s*. for fair partly capey.

ANNATTO.—Bright seed is in good demand at full prices, 20 bags from British India being all sold at from 4*d*. to 4¼*d*. for good red.

ARECA.—For a parcel of 20 from Colombo a bid of 8*s*. per cwt. was refused, 12*s*. 6*d*. being the price.

ASAFŒTIDA.—A fairly large quantity of 381 packages, mostly consisting of lots which have been shown before, was offered to day, but there was very little desire to buy at the prices asked by the owners, and only 20 packages sold, at 100*s*. for fine loose small to bold grey and yellow almonds; 77*s*. 6*d*. to 80*s*. for half blocky, half loose, partly softish yellow, and grey mixed almonds; 50*s*. for dark almondy block, partly friable; and from 35*s* down to 15*s*. for soft grey block, partly almondy, partly drossy, down to ordinary dark and stony block.

BALSAM (COPAIBA)—Firmly held; 1*s*. 9*d*. per lb. is asked for good thick pale *Maranham*, and of 5 barrels dark red thin Bahia-kind, 2 sold at 1*s*. 6*d*. per lb.

BALSAM (PERU)—Fairly steadily held, at 9*s*. 6*d*. per lb. for good quality of direct import. The supply is in very few hands.

BENZOIN.—There was not much offering to-day and the market was rather weak, *Sumatra* gum selling at some slight decline in price. 9 out of 220 packages of this variety finding buyers, at 7*l*. 17*s*. 6*d*. for good seconds, pale almondy centres, somewhat dull corners, and 6*l*. for medium seconds,

rather false packed. *Siam* gum was not shown, and 65 packages *Palembang* were all bought in.

BUCHU.—Steady, but without much demand. Of 46 packages, 13 bales round, partly stalky yellowish to green leaves, realised 2½*d.* to 2¾*d.*; good round green leaves being bought in at 3½*d.* to 4*d.*, and long leaves, according to quality, at from 6*d* to 8*d.* per lb.

CAFFEINE.—We hear of very little business this week A few pounds might probably be had at 27*s.* per lb. on the spot, and for delivery the market shows, perhaps, a slight touch of an easier tendency. In New York, according to reports dated April 27, 5-lb. lots have been sold at $9 50 per lb. and "extreme scarcity" prevails.

CALUMBA.—This drug is in moderate supply; good yellow sorts were bought in to-day at from 20*s.* to 25*s.*, and 120 bags of ordinary dark and small sold at 7*s* per cwt.

CAMPHOR (CRUDE).—The excitement still continues, and although the advance both in *Chinese* and *Japanese* camphor has not been quite so great this week as last, the business transacted is rather larger. The total sales since Thursday last amount, it is believed, to about 10,600 piculs, about equally divided between the two varieties, and the bulk for May-July shipment. On Friday there was much excitement, large quantities of Japanese camphor selling at from 140*s.* up to 155*s.* on the spot, and a fair lot of Chinese up to 145*s.* per cwt., c.i.f. terms. Since then business has been done in Japanese at from 140*s.* to 150*s* per cwt., c.i.f. terms, mostly May-July shipment, and in Chinese gum at from 140*s.* up to 147*s.* 6*d.* per cwt, c.i.f., for May-July, the market closing firmly at the higher rates. The cable quotations from China state that the price there is much in excess even of the London rate. The business, of course, is all speculative, the broker who is supposed to act for a financial syndicate being practically the only buyer. It is believed that there is some expectation that the operators may be able to "corner" the market for delivery. At auction to-day, 174 tubs *Japanese* camphor were shown; for 67 of these a bid of 150*s* was accepted, but for the remainder that price was refused. Fourteen tubs of *Chinese* camphor, which had been declared for sale, were not actually offered.

CAMPHOR (REFINED).—The manufacturers are evidently determined to take as many bites as they can at the cherry. Their second increase-announcement of last week was hardly allowed time to settle in the minds of its recipients, before it was succeeded by a third, issued on Monday, in which prices were again raised a penny per lb. all round. The present are the current quotations for 10-cwt. lots:—Bells, 1*s.* 9½*d.*; 4, 8 and 16 oz. tablets, 1*s.* 10½*d*; 1 and 2 oz. tablets, 2*s.*; ½-oz. tablets, 2*s.* 0½*d.*; ⅓ and ¼ oz. tablets, 2*s.* 1*d*; flowers in 5 and 10 lb. boxes, 1*s* 9½*d*; ditto in 1 lb. boxes, 1*s.* 10½*d.* per lb. Smaller wholesale lots ½*d.* per lb. more all round. At the auction 2 casks fair German bells were shown, and bought in at 2*s.* per lb. nominally, the price asked being 1*s.* 7½*d.* per lb.

CANTHARIDES.—Neglected. Of *Russian* flies 5 casks were shown and bought in at 3*s.* nominally. Privately new Russian are offering at 2*s.* 3*d.* per lb. net. Twenty-three cases *Chinese* flies were shown; they are held at from 1*s.* to 1*s* 1*d.* per lb.

CARDAMOMS.—Easier all round, at somewhat irregular prices, fair Malabar being from 2*d.* to 3*d.* per lb. lower. Mysores were also lower, and seeds show some decline. Of 273 packages, 176 sold as follows:—*Ceylon-Mysore*, good bold pale, 2*s.* 7*d.* to 2*s.* 9*d.*; medium, 2*s.* to 2*s.* 3*d.*; small to medium pale, 1*s.* 7*d.* to 1*s.* 11*d*; small to medium yellow mixed, 1*s.* 5*d.* to 1*s.* 7*d*; small brown, partly specky, 1*s.* 2*d.* to 1*s.* 5*d.* per lb. *Ceylon-Malabar*, partly damaged, medium yellow, to somewhat dull, 1*s.* 3*d.* to 1*s.* 6*d.* per lb. *Seeds*, 1*s.* 10*d.* to 1*s.* 11*d.* per lb. Nine packages of fair picked, slightly lean, mixed *Wild Ceylon* realised 2*s.* 4*d.* per lb.

CASCARILLA.—A newly-imported parcel of 14 bales fair but rather small was withdrawn at the auctions.

CHLORATE OF POTASH.—A large business has been done for delivery up to the end of the year at 4½*d.* per lb. f.o.b. Liverpool.

CINCHONA.—The principal parcel at to-day's sales was one of 43 serons "Crown" bark from Callao, which sold cheaply as follows:—35 bales fair sound *Huanoco* quill, at 6½*d.* to 7¾*d.*; and 8 serons *Loxa*, fair but partly mixed, at 11*d.* per lb.

CLOVES.—*Zanzibar* cloves have been the great speculative article of the week, speculators having bought up thousands of bags (the total estimate of the week's sales is over 38,000), thereby forcing up the price from 2½*d.* to 3$\frac{17}{32}$*d.* per lb. for July September delivery, while at Wednesday's auctions 800 bales sold on the spot at from 3*d.* to 3⅝*d.* per lb. for common to fine. The London stock of the article is enormous—on Saturday last it consisted of 78,507 packages, or about four years' consumption.

COCA.—Of a 21-bale parcel rather broken but dry *Truxillo* leaves, only two bales sold (damaged) at 7¾*d.* to 9¼*d* per lb.; for sound leaves 10*d.* is asked, a bid of 8½*d* being refused.

COCAINE.—The fresh decline in the price of *Hydrochlorate of cocaine*, which we foreshadowed last week, has taken place, a 9*d.* reduction being announced on Monday. The wholesale rates for cocaine in tins are:—Lots of 100 oz. and over, 17*s.* 6*d.*; lots of from 25 to 100 oz, 17*s* 9*d.*; lots of under 25 oz., 18*s.* per oz. Bottles are charged 3*d.* per oz. extra.

COLOCYNTH.—*Spanish* apple of good quality has been sold privately this week at 1*s.* per lb. At auction 2 cases of rather broken apple were bought in at 1*s.* 1*d.* per lb. Good pale *Turkish* colocynth is held for 2*s.* per lb., which is too high to lead to business at present.

CREAM OF TARTAR has decidedly advanced, best white *French crystal* being quoted on the spot to-day at 69*s.* to 70*s.* per cwt, and *German powder* at 71*s.* to 72*s.* per cwt. To-day's Bordeaux quotation is 69*s.*, perhaps 68*s*, per cwt., f.o.b. *Spanish* cream has been sold this week at 62*s* 6*d.* per cwt., f.o.b., but we understand that 64*s.* 6*d.*, f.o.b., is now required for it.

CUBEBS.—Quite neglected; 114 bags were all bought in, fair brown berries from Bombay and Singapore being stated to be limited at 55*s.* per cwt.

DRAGONS'-BLOOD.—Sold well at good prices, especially for *Reed gum* from Singapore, of which a new parcel of 13 cases of fair quality realised from 11*l.* 15*s.*, rising to 12*l.* 12*s.* 6*d.* per cwt. Of dragons'-blood *in lump* only 4 or 5 cases sold at 13*l.* per cwt. for superior fiery, and at 6*l.* 5*s.* per cwt. (subject) for fair but damp block.

ELEMI.—A parcel of 50 cases was shown to-day. The bulk of it was bought in at 35*s.* per cwt. for good pale gum (of which the value recently was about 32*s* 6*d.* per cwt.). Fifteen cases partly dirty to fair sold at from 24*s.* to 27*s.* per cwt., showing a slight decline in price.

ERGOT OF RYE.—Very dull, even at lower prices. Twenty-three bags wormy sifted *Spanish* sold to-day, without reserve, at from 7*d.* to 7¼*d.* per lb, and 8 bags dullish *Russian*, from Hamburg, at 5¾*d.* to 6*d.* per lb. This shows a decline upon the last quotations for both kinds.

GALBANUM.—A case of 1 cwt. partly blocky seedy and dusty gum sold at 1*s.* 2*d.* per lb. to-day.

GAMBOGE is again about 5*s.* per cwt. lower, but the demand continues fairly good. Of 20 cases shown to-day, 8 found buyers at 7*l.* 10*s.* to 8*l.* 17*s.* 6*d.* per cwt. for dark and drossy to fair pipe and block mixed. Good pipe of bright fracture is held for 10*l.* 10*s.* per cwt.

GUAIACUM.—For 3 cases low block offered to-day, 3½*d.* per lb. was accepted.

GUM AMMONIACUM.—Sixteen cases were offered to day but only five of these sold at 24*s.* per cwt. for blocky asafœtida-scented gum. A bid of 36*s.* per cwt. will be submitted for 11 cases good clean grain and drop, partly seedy.

HONEY.—Quiet. A few barrels thick yellow *Jamaican* honey, rather dull, sold at 22*s.* per cwt., subject to approval; and for 5 packages pale candied honey (origin not stated) 30*s.* per cwt. was accepted, but all the *Australian*, *New Zealand*, and *Californian* honey offered was bought in.

IPECACUANHA.—Of *Brazilian* root 59 bales were offered, but the bulk of this was very firmly held, and owners showed little anxiety to accept the current rates; in fact, one broker declared that he did not think the supplies would be half as large this season as last. Altogether 23 bales sold at steady to rather higher prices. Ordinary wiry to good

ly sound root realised from 3*s.* 10*d.* to 4*s.* 6*d.* per lb.; d, thin damaged to fine bold picked, slightly damaged, fr 3*s.* 9*d.* to 4*s.* 11*d.* per lb. Twenty packages fair, sl tly damaged *Cartagena* root were bought in. The price a d for them is 3*s.* 3*d.* per lb.

ABORANDI offers somewhat more freely, but the supplies do not include anything of good appearance. Twenty-three ba s were shown to-day, and all bought in; a bid of 3d per lb. is to be submitted for 13 bales ordinary brown da aged leaves.

LAP.—The market is rather irregular, but upon the w le about ¼*d.* per lb. dearer. Two parcels were offered to ay, one of which (61 bales) sold, subject to owner's co irmation, at the last auction rates. Those figures, how- e , failed to meet with the holder's approval, and the tr saction was therefore cancelled. The other parcel (1 bales) realised 9¼*d.* per lb. for good sound heavy, and fr n 8*d.* down to 6½*d.* per lb. for damaged and more or less m ldy *Vera Cruz*, an advance of ¼*d.* per lb.

IME-JUICE.—Fair *Jamaica* lime-juice is scarce, the bulk o the supplies having been bought up privately; 1*s.* 4*d.* per g on is now asked.

ENTHOL is offering at about 6*d.* reduction; 15*s.* would n r probably be accepted.

ERCURIALS.—In consequence of the advance in the price o quicksilver announced elsewhere, the English manu- f urers of mercurials have again raised their prices by 1*d.* a round. The figures are now as follows:—

—		Under 56 lbs. of any one sort.	For assorted lots of not less than 56 to 224 lbs.	224 to 560 lbs.
		s. d.	*s. d.*	*s. d.*
alomel	per lb.	2 11	2 10	2 9
orrosive sub.	„	2 7	2 6	2 5
ed precipitate ..	„	3 2	3 1	3 0
„ „ levig. ..	„	3 2	3 1	3 0
hite „	„	3 2	3 1	3 0
ersulphate	„	2 3	2 2	2 1
alph. with sulphur ..	„	2 2	2 2	2 0
ercury with chalk ..	„	1 0	1 0	1 0

USK.—Very slow of sale. Nothing was sold at to-day's a tions, and prices remain unaltered.

YRRH.—Very difficult of sale, only about one-eighth of t supply offered to-day being sold at 51*s.* (subject) for dull d ty sorts, and 20*s.* for dark chips; fair native picked myrrh h eld for 5*l.* per cwt.

IL (COD-LIVER) is again quoted as higher by several of t importers, 160*s.* per barrel, c.i.f., being now asked for t t new season's Lofoden. The Finmarken fishing is said t have only yielded 150 barrels of oil.

ILS (ESSENTIAL).—*Star-anise* oil is reported to be slightly c rer on the spot with sales at 6*s.* 6*d.* per lb., while for s pment May-June 6*s.* 5*d.* per lb. c.i.f. is quoted. The a vance is said to be due to buying on the part of American f ns. At to-day's auctions the usual assortment of essential s was offered, but hardly anything was sold except two c es so-called *Cinnamon oil*, which realised 7¼*d.* per ounce. F irteen cases yellow *camphor oil* were bought in at 30*s.* p cwt. The other parcels offered do not call for any n ark. *English oil of lavender* is still advancing, and most t the wholesale druggists are about to put up their quota- t ns. There are said to be buyers of fine quality at 80*s.*, a d 100*s.* per lb. is already talked about. It seems that e re will be virtually no crop of this oil this season. English *p permint oil* is also firmer at from 28*s.* to 30*s.* for good to f e quality.

OPIUM.—The London market is still very dull, with small s es of *Turkish* opiums at rather easier prices. Holders are m stly weak, and disposed to accept lower rates. The f lowing are the nominal quotations:—*Soft shipping*, good fine, 10*s* 6*d.* to 11*s.* 6*d.*; *Smyrna*, good to fine, 8*s.* 6*d.* to ; *Druggist's* seconds, 7*s.* 6*d.* to 8*s.*; ordinary to fine *Con- s ntinople*, 8*s.* to 9*s.* 6*d.* per lb. *Persian* opium is the only r iety which remains firmly held. Fine qualities are very a rce, and are now held for 12*s.* 9*d.* per lb.; common to e dium grades from 10*s* 6*d.* to 11*s.* 6*d.* per lb. The following reports, dated May 3, reach us from Smyrna:—"There have been very few buyers in our market lately, 7 cases being the total of the sales for the week ending to-day. This quantity was bought by exporters at the current market rates. The future price of opium will depend upon the outturn of our crops, and the demand from speculators and the consuming markets. We are inclined to believe that our market may recede to 7*s.* or 6*s.* 6*d* per lb., after making due allowance for loss in weight and other charges; but the turn of the tide will take place as soon as speculation begins, which will be carried on to a very large extent this year. The Smyrna quotations on May 1 were:—Selected talequale sightly, 7*s.* 4*d* per lb., f o b; current talequale for manufacturing, 7*s* 3*d* per lb., f.o.b.; Yerli talequale for manufacturing, 7*s.* 5*d.* per lb., f o.b.; good opium would be worth about 7*s.* 8*d.* per lb., f.o.b. The stock of opium in the interior, Smyrna, and Constantinople is about 990 to 1,000 cases in first and second hand inclusive. There is little or no stock in Salonica. The arrivals to date are 2,351 cases, against 1,388 at the same period last year. Up to the present everything is going on well in the growing districts. The April rains have greatly benefited the plants, and a heavy crop (some talk of 10 000 cases) is expected. The present month, however, is a notoriously treacherous one. Reports from Salonica are somewhat contradictory, but as the sowings in that district have been very extensive, the estimates of the output run from 1,300 to 1,500 cases

QUICKSILVER.—Heavy sales of quicksilver were made on Monday at 7*l.* per bottle, which was then the importers' quotation. After these transactions the sellers refused further bids at the same price and an advance was seen to be imminent. This was, in fact, declared on the next day, when the Messrs. Rothschild advanced their quotation from 7*l* to 7*l.* 5*s.* per bottle. Second-hand holders now ask 7*l.* 4*s*; they have refused bids at 7*l.* 3*s.* 6*d.*

QUINCE-SEED.—Very dear. For one 70-lb. bag shown to-day 2*s.* per lb. is asked.

QUININE.—Dearer; on Wednesday 10,000 ozs. H. B. or B. & S. bulk were reported sold at 12¼*d.* on the spot, and to-day 12½*d.* per oz. was paid for 12,000 oz. more. There are now only a few sellers at the last-named price. At auction 5,000 ozs. were offered and bought in at 12½*d.*

RHUBARB.—Quiet, but fairly steady. *Shensi*: bold flat fair, pinky fracture, realised 2*s.* 3*d.*; small druggists' root, 2*s* 1*d.*; fair medium to bold, three-fourths pinky fracture, round, 1*s.* 6*d.*; small spongy, dull fracture, round, 11*d.* per lb. *Canton*: slightly wormy flat, of fair fracture, 1*s.* 1*d.*; rough coated, slightly wormy, medium to bold, half-dark fracture, round, from 8¾*d.* to 9½*d.* per lb.

SARSAPARILLA.—*Jamaica* root is quite a penny dearer, 19 bales slightly damaged selling at 1*s.* 5*d.* per lb. Other varieties were nearly all bought in.

SENNA.—*Tinevelly* leaves in strong demand, at an advance of about ½*d.* per lb. for good qualities. About 250 packages were nearly all sold at from 4¾*d.* to 6¾*d.* for good green medium to fine bold, 2*d.* to 2¾*d* for small to medium ye lowish, and from 1¾*d.* down to 1*d.* for ordinary dark.

SHELLAC.—There has been an enormous speculative business in this article, of which the price has advanced very considerably since last week. On Friday last TN *Orange* sold at 112*s.* for August delivery; to-day 140*s.* was paid in that position, while for June delivery 137*s.* 6*d.* was paid. AC *garnet* lac on the spot sold to-day at 112*s.* per cwt., and there are further buyers at that price. On Tuesday 107*s.* was accepted for this variety.

SPICES (VARIOUS).—*Pimento* has advanced to 2⅞*d.* per lb., which has been paid for 600 bags of fair quality. *Ginger*: At auction Cochin root sold freely at a decline of 1*s.* per cwt, while Jamaica was in demand at full prices—good to fine bold bright, 96*s.* 6*d.* to 132*s.*; ordinary dull to medium washed, 59*s.* 6*d.* to 73*s.* per cwt. Since the sales, 1,500 bags rough washed Cochin have been sold at prices running up to 36*s.* per cwt., showing a good advance. *Nutmegs* and *Mace* are steady; *White* and *Black pepper* firmer, but closing quietly; *Cassia lignea* has been sold up to 29*s.* 6*d.* per cwt.

VANILLA.—Rather dearer, at from 15*s.* 6*d.* to 25*s.* for good to fine bold.

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Maw's Drug-company.

(*Registered in Scotland.*)

SIR,—As the above appears in your issue of the 11th under the head of "New Companies and Company News"—objects, amongst others, to manufacture and sell medical and surgical appliances of every description; and as our firm, established over a century since by Messrs. Maw and still carried on by members of the family, is, we believe, the only one as makers of medical and surgical appliances of the name in existence, and as our specialities are known all over the world as Maw's, to prevent misunderstanding amongst our customers, we beg you will do us the favour to publish this letter stating that we have no connection whatever with the above-named company.

We have instructed our solicitors in the matter to demand from the parties concerned an undertaking to forthwith cease to use the name of "Maw's" in connection with the said company, failing which to apply for an injunction to restrain the user of such name.

May 16. S. MAW, SON & THOMPSON.

The Aconitine Controversy.

A correspondent (49/90) desires to call attention to a point in this controversy which he thinks we have overlooked. Writing on March 2 last we said, regarding Dunstan's first and second papers, that they were a "consis ent amplification of the facts stated in the abstracts." This our correspondent regards as an oversight, for there is one paragraph in the second paper that cannot be read into or out of the abstract. In view of Professor Dunstan's defence, published last week, the whole case is now brought into very narrow limits, he writes, and that paragraph supplies the kernel of the controversy. In last week's statement Professor Dunstan uses these words (here italicised for clearness):—

"Wishing to complete this proof by making the necessary determinations of acetic acid, we only presented the Society *two full* papers for the Transactions, holding over the third until these determinations were made. In about a fortnight these estimations were finished, and they proved that *exactly* [the third paper says *almost exactly*] *one molecular proportion of acetic acid separates when aconitine changes into isaconitine or into acmine.*"

And, again, referring to Freund and Beck's ignoring their conclusions, Professor Dunstan says:—

"This proceeding seemed to us so unfair that we at once sent to the President of the Society a short statement of our quantitative determinations, at the same time drawing his attention to the paper of Messrs. Freund and Beck. The President directed that this statement should be included in the March number of the *Journal* (1894) then passing through the press, in which *the first two papers had already been printed.*"

From these remarks it is evident that Professor Dunstan admits withholding, and partially re-writing, the third paper, and explains the circumstances under which this was done. This explanation having been made, the third paper may be dismissed from notice. The second paper is now—as, indeed, it has all along been—the more important of the two, and its contents amply justify Professor Dunstan in his contention with Freund and Beck. The words referred to are in paragraph 3, and are as follows:—

"The production of acetic acid was not to be inferred from previous knowledge of the properties of the alkaloid. . . . There is *no doubt* that aconitine contains one benzoyl group, and *that the acetic acid is derived from an acetyl group.* Further investigation has shown that *aconitine must be regarded* as *acetylbenzoylaconine*, and our so called isaconitine as *benzoylaconine*, for *we shall prove in our next paper that one molecular proportion of acetic acid separates when . . . aconitine is hydrolysed.*"

From this quotation it is evident that if the "full paper" was presented on January 18, Dunstan's claim to priority must be admitted in so far as it relates to himself and Freund and Beck

No doubt Professor Dunstan has ample proof in support of his statement as to the second paper having been presented *in full*, and in view of what has been said the proof should be produced. This should include explanation of the following points:—

First, the discrepancy between these statements—

In *the abstract* the authors say they are engaged in determining "Whether aconitine may not be an acetyl derivative, which loses its acetyl group on hydrolysis."	In *the paper* they say, "There is *no doubt* that the acetic acid is derived from an acetyl group."

Second, Professor Dunstan writes, last week, that "in about a fortnight these estimations were finished, and they proved that exactly one molecular proportion of acetic acid separates when aconitine changes into isaconitine or into aconine." But the second paper had been presented in full a fortnight before, and in that paper the authors say, "We shall prove in our next paper that one molecular proportion of acetic acid separates when one alkaloid changes into the other, and when aconitine is hydrolysed." What is the meaning of this statement? Either they had the proof or they had not. Professor Dunstan says they had to wait a fortnight for the proof, and it follows that, in the second paper, they were issuing a statement which might be scientifically wrong for anything they could tell—an extraordinary position for two scientific men to take.

Third, in the abstract of the second paper there is no reference whatever to the most important statement regarding the constitution of aconitine, and it is hardly conceivable that such an important point should be omitted from the abstract.

In justice to Professor Dunstan, I note his statement that "at the time these short papers were written, quantitative estimations of the desired degree of accuracy had not been made." Possibly, therefore, the two full papers were not communicated on January 18. But if not, when were they communicated? One thing is certain—he says they were presented in full, and the third paper only held over for certain estimations; consequently, they must, at least, have been presented within a fortnight of January 18. But the third paragraph of the second paper contains statements based on these estimations. Was that paragraph included in the full paper, or was it added in the proof? The case now narrows itself down to this one point.

Company Pharmacy.

SIR,—No fair-minded trading pharmacist can help being interested, and at the same time pained, by the letters sometimes printed in your journal *re* company pharmacy. It seems to me that it might be valuable if you, who are the St. George, or one of the St. Georges, of the trade, would open a subscription-list for funds to pay a suitable person to canvass the United Kingdom for a census of opinion on the matter.

The gentleman chosen for the purpose should be furnished with a properly-worded petition setting forth the grievances of the trade, especially as regards the practice of company pharmacy (which should embrace the sale of poisonous drugs and patent medicines and dispensing of prescriptions), to be signed by chemists in business and assistants of the same. This petition, which I believe would be widely signed, should then be introduced (well backed) to the House of Commons in the most practicable way to draw the attention of the House to the same.

By this means you would obtain, without giving any trouble to the pharmacist, his opinion on the subject. I

nit some difficulty in my plan; but is it not necessary us to make some temporary pecuniary sacrifice to effect so ch-needed a reform—namely, the stoppage of company-rmacy altogether? I am afraid "Major's" ideas (see your e of May 11) would be impracticable on account of our k of union. As to "spes," how will he distinguish the rincipal chemist" in a town?

By all means let us teach also the assistants who aid ompany pharmacies" that they will be doing a far better g if they will help their own brother-chemists, in good vate pharmacies, to reform, elevate, and draw into its per channel this unfortunate trade, which has fallen on grievous and (at present) helpless disaster.

Yours very faithfully,
NOMEN. (50/24)

N.B.—The above letter, of course, presupposes my hearty operation and pecuniary support.

Election of Pharmaceutical Council.

IR,—I observe with regret that Mr. Bradley, of Reading, ises his friends to cross off the name of Mr. Bateson, of dal, from the list of candidates for the new Council of Pharmaceutical Society. It is quite possible that Mr. dley, living in a southern county, may have no personal owledge of Mr. Bateson; at any rate, I wish to say that, ing known Mr. Bateson for many years, I believe him to eminently qualified to represent the interests of pro-cial chemists in the Council, and I heartily wish he may returned at the coming election.

Yours truly,
Harrogate, May 11. FRESHFIELD REYNOLDS.

IR,—The voting-paper for the election of the Council of Pharmaceutical Society are now out, and there is one line reon which I think many of the trade will consider uld have been best omitted—viz., "The names to which letters P C. are not prefixed are those of persons who are on the Register of Pharmaceutical Chemists." Whilst itting that a society would be best governed and worked its own members, inasmuch as this Council is chosen to k after the interests of the whole trade, such a statement hat referred to might convey to some voters the impres-n that these men were not on the Register of Chemists and ggists, and therefore ineligible for the Council; whereas y are not only eligible, but the presence of a few good n of this class is calculated to further the interests of the e generally.

Yours respectfully,
C. & D. (47/67.)

The by laws of the Society, we understand, require the ix indicated.—ED.]

IR,—I am considerably surprised at the Pharmaceutical ncil's attitude towards the Early-closing Bill as represented he reports.

f it is true that the feeling of the present Council is inst the Bill, would it be possible for you, Sir, to give us views on this question of the candidates for election in r next issue? The time is, unfortunately, very short. I e, however, already marked off Messrs Hampson and Hills, hope that other members and associates, whose busi-ses will not support qualified assistants with whom to de the long day, will note their utterances on this ject.

Yours faithfully,
shley Road, Southport, S. J. ELLIOT.
May 11.

We have not adopted the suggestion offered in this letter cipally for the reason that we scarcely see how the Shops ly-closing Bill in its present form concerns the Council as h.—ED.]

What are Cucupha?

IR,—In reading an article on pharmacy in Benjamin rtin's "Bibliotheca Technologica," published 1776, my ntion was arrested by a description of the cucupha any of your readers tell where other references may found about this? One has often heard of the hop pillow d for promoting sleep, but I never read before of the cucupha. Says the writer: "Cucupha are an ancient form of quilting spices into a cap, to be worn on the head in disorders of the nerves and head, but are now very rarely prescribed or used, though they may be useful on many accounts."

Yours truly,
Redcliff Street, Bristol, ALGERNON WARREN.
May 11.

Sale of Methylated Spirit on Sunday.

SIR,—Referring to your footnote at page 588, I may say the notice I had in mind appeared in the *British Medical Journal*, April 22, 1893, page 868. It was in the following terms, in reply to an inquiry by Dr. Taylor, of Richmond:—

Inland Revenue, Somerset House, London, W.C.,
April 14, 1893.

SIR,—In reply to your letter dated the 23rd ultimo, I am directed by the Board of Inland Revenue to acquaint you that they have no power to allow the sale of methylated spirit on Sunday.

I am, however, to add that in so exceptional a case as that referred to by you the Board would not be disposed to take any notice of an infraction of the law. I am, Sir, your obedient servant,
W. B. HEBERDEN, Assistant Secretary.

I shall be obliged by your inserting this correction.

I am, yours faithfully,
Edinburgh, May 2. JAMES L. EWING.

An Optician's Anti-cutting Provision.

SIR,—I beg to enclose copy of an invoice now being used by Messrs. R & J. Beck, opticians, which seems to provide a plan for the prevention of cutting—at all events, in goods of any value. Many of your readers, personally interested in a living profit, may be glad to adopt, or criticise, the scheme.

Faithfully yours,
PHARMAKOS. (46/52.)

The paragraph printed at the head of Messrs. Beck's invoice-form runs thus:—

Herewith we send you the undermentioned Goods, and we have to point out to you that the Discounts allowed below are upon the express condition that the Goods are not under any circumstances to be sold retail below list-prices; and further, that should any of the Goods at any time be sold by you below such prices, the balance of the cost will be thereupon payable by you to us. If you do not agree to these terms please at once return the Goods to us. Your acceptance of the Goods will be treated as an acceptance of these terms.

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY.

36/52. *Chlorodyne* wants to know what proceedings the Pharmaceutical Society can take if an apprentice who is fined for selling poison cannot pay, and if neither his father nor his master will pay for him? [This is a case of *Catabit vacuus coram latrone viator*. The only person liable under the County Court judgment is the infant apprentice, and as he has no goods upon which execution can be levied, the plaintiffs' only resource is to apply for a committal order, which we do not think any County Court judge would make, and we doubt if he could legally do so. In the similar case of a married woman committed for a debt, the Queen's Bench granted a *habeas corpus* for a release. The cost of a *habeas corpus* (in proper hands) would take the gilt off a good many fines recovered by the Society.]

39/47. *Silurian* says his shop stands opposite the Market House in a small town which has neither a town council nor a local board. The Market House was built by the lord of the manor, who owns most of the property round about. He lets it to a lessee, who collects the tolls on market and fair days. On certain fair-days people put up their stands on the pavement opposite "Silurian's" two windows, and right up to his door. Can he prevent such intrusion, and how? The police refuse to interfere, saying that it is only their

duty to keep the street clear. [If the encroachments are on a part of the pavement included in "Silurian's" tenancy, he can summarily eject the persons thus encroaching. If, on the other hand, the pavement is public property, but the "standings" interfere with free ingress to and egress from his shop, or with his right to light and air, or otherwise constitute a nuisance, and the police decline to interfere, our correspondent should apply for an injunction. He can do this in the local county court. By the Local Government Act of 1894, the control of the streets is vested in the local district council, and our correspondent could probably get relief from them. The pavement (unless private property) is as much a part of the street as the roadway, and our correspondent had better write to the chief constable, and hear what he says. An injunction is the simplest course.]

41/39. *C. C. C.*—The name is not on the register. But it is not illegal for a medical man or an institution to employ an unregistered person to dispense. The law only provides that such person may not "sell" or "keep open shop for selling" poisons.

42/21. *H. R.* asks:—"What words in connection with compressed drugs are registered and protected besides 'Tabloids?'" [We cannot answer such a question. It would involve a laborious search.]

42/36. *Secun*—Obtaining a patent does not entitle you to use the royal arms—indeed, it is a section of the Patents Act which renders any person liable to a penalty who, without the authority of a member of the Royal Family or of a Government Department, uses the royal arms in such a manner as to be calculated to lead persons to believe he is carrying on his business under such authority.

48/3. *Arsenic* asks if he may sell to a rat-catcher 1 cwt. of arsenic uncoloured. He may sell 10 lbs. or more uncoloured on the representation of the purchaser that the arsenic is to be used for some purpose, other than agricultural, for which the colouring would render it unfit. The responsibility in regard to such a statement devolves on the purchaser entirely, and he is liable to a penalty of 20*l.* if he give any false information in regard to the purpose for which he buys it, &c. The vendor would be wise to have his representation in writing that the colouring of the arsenic would render it unfit for his use.

MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

34/36. *Subscriber* (Goole)—(1) Household Embrocation.—You cannot be wrong in using the formula for white oils given in *C. & D.*, September 29, 1894, page 502. To this you may add some ol. succini to make it similar to the last. (2) A Pain in the Back cannot always be cured speedily, for it may arise from many things, and in counter-prescribing you cannot hit off the right one on the first trial. The following is a safe mixture for the purpose:—

Potass. acetat.	℥ss.
Tr. gentian. co...	℥j.
Tr. hyoscyam.	℥ss.
Aq. chloroformi ad	℥viij.

M.

A tablespoonful three times a day.

A podophyllin-and-colocynth pill should be taken before this mixture is commenced.

33/45. *Juno.*—(1) Constipation-powders for Cattle.—There is no advantage in using aloes Soc. in place of Barbadoes, but if you substitute aloin in place of aloes the smell and taste will not then be objectionable. Thus:—

Aloin	ʒiv.
Ginger	℥j.
Gentian	℥ss.
Anise	℥ss.

M.

This powder is as efficacious as the one given in "Veterinary Counter Practice." Mag. sulph can be added if desired. This preparation will not be injurious to a cow in calf. (2) The Red-water Cure is very probably a mixture of turpentine and camphor, and can with safety and benefit be given as under:—

Turpentine	℥j.
Camphor	ʒij.

M.

From 1 to 2 tablespoonfuls for a dose in gruel or ol. lini 1 pint.

(3) The book is in preparation.

33/46. *Climax.*—You are delightfully vague. We have published twenty-seven diaries. If it is the Brown-leather Dressing, page 370, 1894 DIARY, that you complain of, we must ask you to try again. We have made it often with excellent results. Possibly your beeswax contains a lot of paraffin; if so, the recipe will not give you good results. Better in that case to use 2 oz. of Japan wax instead of 4 oz. yellow wax.

34/39. *Sauce.*—Fermentation is apparently the cause of the bottles of Sauce bursting. We should modify the method of preparation as follows:—

Powdered pimento	6	lbs.
„ cloves	3	„
„ black pepper	3	„
„ asafœtida	4	oz.
Cayenne pepper	½	lb.
Acetic acid	2	gals.
Malt vinegar	4	„
Water	6	„

Macerate together for three days, then strain, and wash the marc with 4 gallons of water. Reserve the strained portion, then boil the marc for ten minutes with 24 gallons of water, add—

Treacle	12	lbs.
Salt	12	„
Burnt sugar	2	„
Soy	6	gals.

Boil for another quarter of an hour, and strain. When cold mix the strained liquors, and add salicylic acid ℥ss. dissolved in spirit of chloroform ʒij.

34/45. *Maranta*—The formula for Pink Powders given in the 1894 DIARY, page 375, is one largely used in the Midlands. You should put it up in 3-gr. powders, using the labels which you have Larger doses of calomel are, in certain hepatic conditions, exceedingly drastic, and it is such consequences that you should avoid by erring on the safe side.

34/65. *Sticky Fly-paper.*—See 1894 DIARY, page 363. You can buy factitious birdlime, a coating of which is on the whole the best thing.

36/42. *Subscriber* (Winchester), and 236/29, *Pestle.*—We have always used a cream of acacia mucilage and calomel for Repairing Wedgewood Mortars. It is splendid.

39/47. *Silurian.*—There is nothing abnormal about the urine. Most samples give a cloudiness with nitric acid, which is discharged on adding more.

40/53. *Subscriber* (Londonderry)—Consult "Veterinary Counter-practice."

40/28. *Emulsion.*—No. We have never tasted the prepa-ation.

40/62. *E W.*—You do not ask a favour politely. We do ot agree with what you say. Most of the formulæ for oluble essences of lemon which we have published are good, nd manufacturers have expressed to us their appreciation f their value.

35/38. *H. B. R.*—Walnut pomade.—Beat 4 oz. of green alnut-shells, with ½ oz of alum, in a mortar until perfectly mooth, and digest the paste in 20 oz. of benzoated lard on water-bath until clear (that is, till all the moisture has been riven off). Then strain, and perfume with otto of rose and eroli, or any other perfume.

35/31. *Dens.*—Essence of Rennet.—See 1894 DIARY, age 362. Carbolic Tooth-powder.—See *C. & D.*, March 7, 1894, page 400.

35/20. *F. H. R.*—Effervescing Lime-juice Powder:—

Sodæ bicarb.	℥xj.
Acid. tartaric.	℥x.
Pulv. sacch. alb.	℥xvj.
Ol. limettæ	♏xij.

M.

38/32. *Polish.*—We cannot reconcile your question How to treat mahogany in its rough state?" with our ideas what is pharmaceutical, and we must draw a line some-here. Sorry.

39/42. *H. H.*—For Modelling-wax, see 1894 DIARY, ıge 371. We presume you keep it, although you are so ıprovident as not to keep the *C. & D* We do not republish formation because anyone cannot refer to it; not, at least, hile back numbers are in print.

39/58. *H. N.*—You must refer to our last Educational umber, September 15, 1894, for information regarding ıeen's scholarships.

37/72. *A. N.*—What do you mean by "Anytin"? Give us e reference.

28/95. *Lux.*—The chief objection to the powders is that ey are apt to become soft. Otherwise they are right.

39/36. *Lincolnshire.*—(1) Arsenical Soap (see 1894 IARY, page 356) is used for curing birds' skins. It is beyond e scope of these columns to give taxidermic instruction.) Greenhouse Shading. to be syringed on the glass.—ıtty thinned with turpentine.

39/71. *Picrate.*—(1) It is possible for an amateur to make ap, but it does not pay in England where soap can be ought so cheaply. See reply 146/9 on February 9. (2) ɔrax solution being alkaline will lighten hair by removing e fat. (3) In Freezing by the Ammonia-process the inciple is that by evaporation the ammonia withdraws at from the surrounding material, and as the water to be ɔzen gives up heat most readily, it is it that is cooled ɔwn. Messrs. Barnett & Foster will give you information out or supply the apparatus.

41/56. *Verax.*—The conditions as to assistantships in the ıannel Islands are practically the same as on the mainland. knowledge of French would, no doubt, be beneficial, but t essential. Advertise in our Supplement for a situation ıen you want one, or look in it for vacancies which may be vertised.

29/8. *De W.*—(1) We are not posted in regard to tempera-painting, but some subscriber may tell you what white is used. (2) Confectioners use otto of rose largely. Some who make cheap goods blend it with rose-geranium, but that is not satisfactory.

25/12. *Leather.*—Brown Stain for Leather.—We understand that when cutch is used by glove-skin makers they first mordaunt the skin by steeping in a bath of stale urine 1 gallon, and bichromate of potash ¼ oz, then in a plain infusion of cutch. You will see from this how difficult it will be for you to imitate the rule-of-thumb method on a small scale. But you can try with the following solution:—

Cutch	1 oz.
Carbonate of ammonia	¼ oz.
Boiling water	1 pint

Infuse for an hour, cool, and add 1 oz. of methylated spirit.

39/6. *Forty-one.*—There is no really first-class book on the manufacture of aërated-water essences, &c., from the raw materials. Stevenson & Howell publish a book which you might consult. It is confined to the making of syrups and the like.

38/20. *Orchid.*—(1) Brown Boot-polish.—Colour furniture cream with solutions of Bismarck brown and phosphine to get the tint desired. (2) Powder for Lice on Cattle.—Powdered stavesacre ½ lb. to 1 gallon of boiling water. The cold decoction to be brushed on the parts affected.

39/69. *Arsenicalis.*—Dry Weed-killer.—Arsenic, 4 oz.; dry carbonate of soda, 4 oz.; soot, ¼ oz. Mix. This quantity for 2 gallons of water.

37/64. *Subscriber.*—(1) Wood-stains.—See 1894 DIARY. Varnish-stains are spirit-soluble dyes of the colour desired. (2) Furniture-cream:—

Pearlash	℥ij.
Soft soap	℥iv.
Pure yellow wax	℥xij.
Water	℥xx.

Boil together until a uniform cream is obtained adding a little more water from time to time, and stirring all the while; then transfer to a 2-gallon jar containing 2 pints of warm water. Cautiously add with shaking 30 oz. of oil of turpentine, and enough water to make 1 gallon.

244/95. *W. B. A.*—We understand that ice-cream is made by freezing a mixture of milk 2 pints and sugar 1 lb. coloured with annatto and flavoured.

43/25 (*Snidka*) and 48/4 (*Heber*).—The certificates would most probably be accepted by the Board of Examiners; but submit them to the Registrar, 16 Bloomsbury Square, W.C.

47/46. *An Assistant.*—Common salt is the article intended. It is often used for nasal douches.

48/11. *Dublinensis.*—What are the stains? Better that you should experiment than we guess.

48/7. *H. R.*—To Disinfect a House (? room) after Scarlet Fever.—Empty the room or rooms of all furniture, carpets, and drapery. Ignite one or more sulphur candles in it and shut the door. If the room occupied by the patient has been isolated it will suffice to disinfect it. The ceiling should be re-washed, the wall-paper rubbed down, and paint and floor washed with carbolic soap. Any of the bedding that can be washed should be, and the rest well-aired, heated before the fire, or re-made after being kilned. It is obvious that only a portion of this work can fall to a chemist, and it is customary to charge only the full price for the materials.

47/59. *J. W. Harvey.*—The plant sent is the bog bean (*Menyanthes trifoliato*), a plant belonging to the gentian family. It is not uncommon in marshes and spongy bogs in this country, and is widely diffused over the northern hemisphere Like most of the gentianæ the plant has bitter and tonic properties, and was formerly used in fever, gout, rheumatism, &c., and also, it is said, for giving bitterness to beer. The rootstock contains much starch and is eaten in Lapland.

INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

The correspondent who asked how to produce invisible writing on glass will find the subject fully treated in an article on "Breath Figures," which appears in this month's *Knowledge*. The old French-chalk idea is there superseded by a variety of processes, including heat, electricity, and simple pressure. C. S. A. (44/66.)

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

47/36. Addresss of makers of "Warwick Glue."

47/9. Who are the makers of Rennetine, and can it be procured from any London house?

42/12. Name and address of makers of Cosmoline.

Next Week.

Monday, May 20.

Society of Arts, John Street, Adelphi. W C, at 8 P.M. "Japanese Art Industries," by Ernest Hart, D C L.

Tuesday, May 21.

Pharmaceutical Society. Annual dinner. Hôtel Métropole at 6.45 for 7 P.M.

Society of Arts, John Street, Adelphi, W C., at 8 P.M. Foreign and Colonial Section:—"Commercial Education in Belgium," by Professor William Layton.

Royal Institution of Great Britain. At 3 P.M. Professor E. Ray Lankester on "Thirty Years' Progress in Biological Science" (II).

Wednesday, May 22.

Pharmaceutical Society. Annual meeting, 16 Bloomsbury Square, W.C. At 11 A.M. for 12 noon.

Nottingham and Notts Chemists' Association. Annual meeting, Masonic Hall, Goldsmith Street. At 9 P.M.

Thursday, May 23.

Royal Institution of Great Britain. At 3 P.M. William Huggins, Esq., on "The Instruments and Methods of Spectroscopic Astronomy" (I.). (The Tyndall Lectures)

Friday, May 24.

Royal Institution of Great Britain. At 9 P.M. J. Viriamu Jones, Esq., on "The Absolute Measurement of Electrical Resistance."

DRUGGIST (wrapping up bottle of patent medicine): "Yes we don't make a cent on these patent medicines. All our time, interest, and store-rent on them are a dead loss." Fair Purchaser (sympathetically): "Oh, is that so? That is too bad. Let me see if I don't want something else. Oh, yes! Give me five one-cent stamps."—*Puck.* [There are hundreds of jokes like this to be had for nothing. Does anyone want more?]

LONDON DRUG STATISTICS.

THE following figures refer to the movement of some of the principal kinds of drugs at the public warehouses in the Port of London from January 1 to April 30, and to the stocks in those warehouses on April 30:—

Article	Stocks		Imported		Delivered	
	1895	1894	1895	1894	1895	1894
Aloes.....cs, &c.	4,717	5 604	683	605	594	1,227
" .....gourds	3,095	2 975	—	69	128	350
Anise, Star .....cs	461	551	—	—	15	62
Arrowroot ....brls	14,944	11.610	10,820	10 019	5,896	5.898
" bxs & tins	2,179	1,623	840	1,817	1.027	1.114
Balsams....cks, &c.	965	1.298	359	238	569	858
Borax .....pkgs	-	376	—	376	—	5
Calumba.....bgs.	880	1.416	121	166	283	742
Camphor ....pkgs.	4.822	5 021	2,644	5,434	2,122	5,256
Cardamoms..cs, &c.	1,295	958	1,346	1,319	785	963
Cinchona-bark:—						
S. American ..cs	64	46	—	—	—	6
" bls, &c.	19,262	21,654	2,467	2,592	3,226	4,131
E.I. Ceylon, and Javan cs	193	113	67	49	65	41
E.I. Ceylon, and Javan bls	12 835	14,789	6,014	6,821	4,964	6 573
Cocc. Indicus . bgs	174	503	—	125	20	180
Cream of tartar cks	—	10	17	20	17	36
Cubebs .....bgs	242	307	22	228	166	291
Dragon's Blood ..cs	180	115	100	74	107	56
Galls, China, &c. cs	561	1,170	573	1,423	504	691
Trky & Prsn..sks	2,280	2,581	1,917	1,055	2,531	1,065
Gums—						
Ammoniacum pgs	108	76	85	44	52	61
Animi & Copal "	10,737	9 943	7,270	6,418	6,233	6,451
Acacia .. "	11.919	14.588	7.749	7,514	6,037	6,683
Asafœtida .. "	1,029	539	1,309	712	453	356
Benzoin .... "	2 261	2 597	1,785	689	1,250	1,140
Damar..... "	4,814	2,403	4,698	1,056	2,925	2,185
Galbanum .. "	11	11	—	1	—	5
Gamboge .. "	222	167	102	107	88	140
Guaiacum .. "	72	176	10	10	64	26
Kino ..... "	5	4	2	4	14	4
Kowrie .....tns	2,101	2,110	1,187	1,194	1,267	1,142
Mastich ....pkgs	17	21	—	9	4	10
Myrrh ..... "	433	328	247	318	236	210
Olibanum .. "	4,903	3,752	3,898	4,033	2,024	2,968
Sandarach .. "	711	1,003	473	448	515	413
Tragacanth "	3.203	3.040	2 952	3 095	2,401	1,891
Guttapercha....tns	2,297	1,935	716	700	347	1,028
Ipecacuanha bls&pgs	748	662	277	291	392	433
Jalap .....bls	253	139	158	79	94	91
Lac Dye .....chts	2,902	4,233	—	—	10	177
Nux Vomica ..pkgs	1,221	1,603	630	2,016	307	796
Oils—						
*Anise .....cs	264	40	389	46	181	90
*Cassia ..... "	159	31	44	10	19	38
Castor.....cks	41	101	57	154	102	216
" .....cs	1,466	2 228	873	1.880	1,001	1,110
Cocoa-nut ....tns	931	685	1 539	1,057	1,322	1,065
Olive ....cks, &c.	1,019	837	713	1,467	789	1,073
Palm .....tns	13	10	28	23	21	17
Rhubarb .....chts	1,003	687	647	258	799	500
Safflower ..bls, &c.	124	116	1	25	24	18
Sarsaparilla ....bls	396	263	471	321	409	470
Senna .....bls, &c.	1,880	2 566	956	519	1,434	1,878
Shellac—						
Orange .. cs	12,767	17,884	10,942	11,561	11,081	13,017
Garnet .. "	7,378	2,909	8,401	2,670	2,817	3,621
Button .. "	4,360	5,032	3,915	4,709	3,546	3,053
Total ....chts	24,505	25,825	23,258	18,930	17,444	19,691
Sticklac .....cs.	488	1,021	1,428	712	1,315	378
Gambier .....tns	497	992	2,555	5,376	2,527	5,185
Cutch ..... "	2 505	2.634	564	1,292	843	991
Turmeric, Bengal "	302	170	13	64	79	43
Madras, &c. .. "	403	233	110	168	226	185
Total	705	403	123	232	305	228
Vermilion . chts,&c.	8	32	—	11	11	25
Wax (bees') bls&sns	918	660	1,453	638	911	770
" cks & cs	986	580	1,686	605	1,237	1,077
" (Japan) cs,&c.	1,230	502	340	163	357	497

* These statistics do not include the oils at Smith's Wharf and Brewer's Quay, as those warehouses decline to supply returns.

THE TRAMP'S COMPLEXION.—Householder to tramp who has solicited alms: "It appears to me that for a man who claims to deserve charity your nose is somewhat red." Tramp: "Yes, sir, it is red, isn't it? Them cheap soaps us pore people 'as to use is werry 'ard on the complexion, sir."

An Evening's Entertainment for Sixpence.

PEARS'

BOX OF OPTICAL ILLUSIONS

This Box contains six scientific Optical Illusions, which afford an interesting, amusing, and instructive entertainment for a whole evening.

CONTENTS.

No. 1.—PEARS' SPECTRUM TOP, which, when spun from left to right, converts **black lines** into **coloured rings** of the following tints: **Red, Green, Grey, and Purple.**

The *Pall Mall Gazette* says: "The Top appears to us to threaten serious things to the existing theories of colour-vision."

No. 2.—YORICK'S SKULL, producing, by following the instructions, a ghostly illusion of a quite awe-inspiring but most interesting character.

No. 3.—THE BICYCLE WHEELS. Another interesting illusion; the wheels have all the appearance of rapidly revolving on the slightest rotary motion of the card.

No. 4.—THE MISLEADING RAILWAY TRACK. Deceiving the most accurate eye.

No. 5.—THE GEOMETRICAL FIGURES. Of a somewhat similar character to **No. 4**, but perhaps an even greater illusion.

No. 6.—THE TUMBLING CUBES. Inexplicably curious.

The whole series demonstrates the difficulty of "believing one's own eyes."

Sent Post Paid to any address in the United Kingdom on receipt of Seven Stamps.

A. & F. PEARS, Ltd.

71–75, NEW OXFORD STREET, LONDON, W.C.

MAGNES. CITRAS, GRAN. EFFG.

RECENT TESTIMONIALS.

"From Robertson's Cash Drug Stores,
"50 Broad Street, Fraserburgh.

"Dear Sirs,—Your new price list to hand. I am immensely pleased with the Specialities I had from you—in price, get-up, and quality they are A1.

"I am, yours truly,
"JAS. ROBERTSON.

"Messrs. Lorimer & Co., London, N."

"90 Western Road, Brighton.

"Messrs. Lorimer & Co.

"Gentlemen,—We have pleasure in informing you that, having tried the Citrate of Magnesia of all the makes that have been offered to us, taking Bishop's as a standard, we find yours to be the only one comparing favourably with the same, and that it quite equals, if not surpasses, it.

"Yours truly,
"HEADLAND & CO., Chemists."

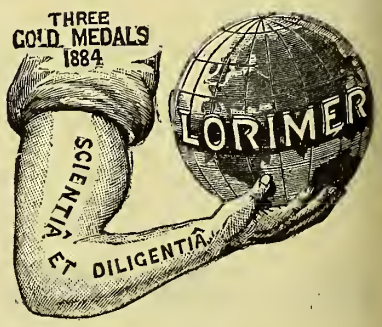
Extra Quality, Red Seal ..... lb. 10*d.*	cwt. 78/-	5 cwt. 76/-	10 cwt. 74/-		
" bots. included		1/-	¼ lb.	½ lb.	1 lb.
" doz.		3/6	4/4	6/5	11/6
" gross		—	43/-	75/-	132/-
Fine Quality, Blue Seal.. ..... lb. 9*d.*	cwt. 70/-				
" bots. included		1/-	¼ lb.	½ lb.	1 lb.
" doz.		3/6	4/-	6/-	11/-
Good Quality, Green Seal..... lb. 7*d.*	cwt. 56/-	5 cwt. 54/-	10 cwt. 52/-		
" bots. included		1/-	¼ lb.	½ lb.	1 lb.
" doz.		3/3	3/8	5/6	8/9
" " gross		—	38/-	60/-	100/-

BUYER'S NAME ON 1 GROSS ASSORTED.

LORIMER & CO.

Britannia Row,

LONDON, N.



Telephone No. 7524.

Telegraphic Address:—
"CALISAYIN LONDON."

SEND FOR NEW ILLUSTRATED PRICE LIST, NOW READY.

Mitchell's CASTOR OIL

as expressed by the BRITISH CASTOR COMPANY, LIMITED, at their WORKS IN LONDON, is quite a new and striking departure from the old-fashioned lines in the manufacture of this, the safest of all purgative medicines. Castor Seed, from which the Oil is expressed, has a decidedly agreeable flavour, and by MITCHELL'S PROCESS the oil so manufactured retains the flavour of the seed, is absolutely pure, and no chemicals whatever are employed in the process, which consists of expressing the Oil cold from the finest variety of Castor Seed, isolating it in a vacuum from any possible contact with air or moisture, while all impurities are being extracted, and finally bottling it in vacuo by special machinery. By this process the Oil is obtained as pure and free from any injurious treatment as when nature left it matured in the ripe seed.

The Oil retains its natural slightly golden tint, and will be found to contain none of the disagreeable characteristics of ordinary Castor Oil. Sir William Moore, K.C.I.E., Honorary Physician to Her Majesty the Queen, in his book, "Family Medicine," says:—"Castor Oil is a mild but efficient purgative, in doses of half an ounce to one ounce for adults, and from half a drachm to two drachms for young children. *But care should be taken that the Oil used is fresh, as if at all rancid it causes irritation, griping, and sometimes troublesome diarrhœa.*" His experience as Surgeon-General in India, where the seed is grown, enabled him to know the advantages of administering fresh Oil to patients.

As the BRITISH CASTOR COMPANY, LIMITED, are now expressing the Oil in England, it is within everybody's reach to obtain fresh and pure Oil at no extra charge; and the public are cautioned to beware of the so-called Italian and East Indian "Cold drawn tasteless Castor Oils," which have been chemically bleached and treated in such a manner as to *look well* at the cost of robbing the Oil of half its virtue.

The BRITISH CASTOR COMPANY being the sole licensees for the manufacture of Castor Oil in this country by MITCHELL'S PROCESS, the public are warned against spurious imitations, and to purchase only in bottles bearing the Company's Registered Label and Trade Mark.

Put up in 2-oz., 4-oz., and 8-oz. Bottles, and packed in cases of 4, 3, and 2 dozen respectively, to be retailed at 6d., 9d., and 1s. per bottle.

SAMPLES FREE TO CHEMISTS AND DRUGGISTS ON APPLICATION.

SPECIAL TERMS TO HOSPITALS AND INFIRMARIES.

FOR PARTICULARS AS TO DISCOUNTS, &c., APPLY

THE BRITISH CASTOR COMPANY, LD., 47 Victoria St., WESTMINSTER, S.W.

HIGHEST AWARD, CHICAGO, 1893.

T. & H. SMITH & CO., EDINBURGH & LONDON

Are the ONLY MANUFACTURERS of the

SALTS OF MORPHIA

To whom, at the UNIVERSAL EXHIBITION, in PARIS, 1878, the

GOLD MEDAL WAS AWARDED

NEW YORK Office—20 Cedar Street: DILLON & CO., Agents. [2]

LOFTHOUSE & SALTMER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and to send samples of our superior Nos. 1, 2, and 3 qualities of CITRATE OF MAGNESIA.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees Wax, &c., &c.

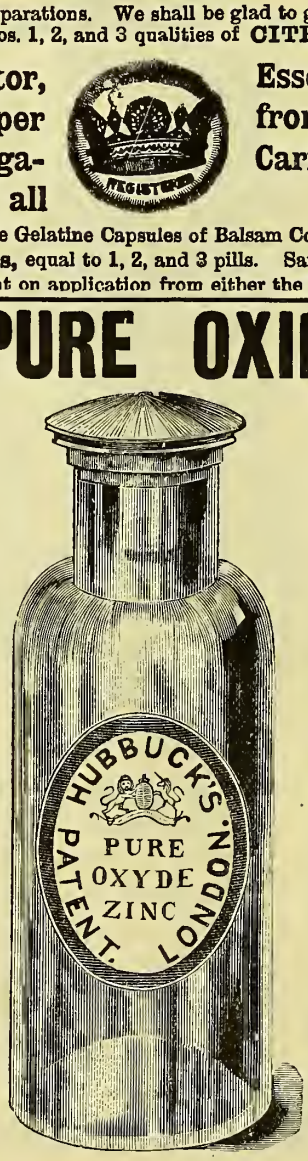
MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Blaud's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade

HUBBUCK'S PURE OXIDE OF ZINC

Sold by the following Wholesale Druggists, in Boxes of 7 lbs. and 14 lbs., stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

Allen & Hanburys.
Baiss Brothers & Co.
Barron, Harveys & Co.
Battley & Watts.
Bleasdale, Wm., & Co.
Burgoyne, Burhidges & Co.
Clay, Dod & Case.
Corbyn, Stacey & Co.
Davy, Yates & Hicks.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb.
Evans, Sons & Co.
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Harker, Stagg & Morgan.
Hatrick, W. R., & Co.
Hearon, Squire & Francis.
Herrings & Co.
Hill, A. S., & Son.
Hodgkinson, Prestons & King.
Hodgkinsons, Treacher & Clarke.
Horner & Sons.
Huskisson, H. O., & Co.
Ismay, John, & Sons.
Johnson & Sons (Lim.)
Lofthouse & Saltmer.
Mackey, Mackey & Co.
Oldfield, Pattinson & Co.
Raimes, Clark & Co.
Reynolds & Bransom.
Southall Bros. & Barclay.
Taylor. James.
Thompson, H. A.
Thompson, John (Lim.)
Tyrer, Thos., & Co.
Walker, Troke & Co.
Warren, A. & J.
Willows, Francis & Butler.
Woolley, Jas., Sons & Co. (Lim.)
Wright, Layman & Umney.
Wyleys (Limited).

Finlay & Brunswig, New Orleans.
Carter, Carter & Kilham, Boston.
Langley & Michaels, San Francisco.
Lazell, Dalley & Co., New York.
Lehn & Fink, New York.
McKesson & Robbins, New York.
Muth Brothers & Co., Baltimore.
Roller & Shoemaher, Philadelphia.
Schieffelin, W. H., & Co., New York.
Shoemaher, R., & Co., Philadelphia.
Weeks & Potter, Boston.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

of Pure Oxide; in fact, the impurities are not traceable.

THOS. HUBBUCK & SON, L^D

(*Established* 1765),

24 LIME STREET,

LONDON, E.C.

Manufacturers of

White Lead, White Zinc Paints, Oils, Colours, Varnishes, &c.

AUSTRALIAN OFFICE—
34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 3 Cwt.

THE

"STANDARD OF QUALITY."

ESSENTIAL OILS

MANUFACTURED OR SELECTED BY

DODGE & OLCOTT,

NEW YORK. U.S.A.

ESTABLISHED 1798.

OILS BAY, CARAWAY, CLOVES, CUBEBS, PEPPERMINT, SANDAL, SASSAFRAS, SPEARMINT, TANSY, WINTERGREEN, WORMWOOD AND MANY OTHERS.

AGENTS FOR THE UNITED KINGDOM—

ASHMORE & SON,

6 MINCING LANE,

London, E.C.

AGENT FOR THE CONTINENT OF EUROPE—

CHAS. WESTPHAL,

195 Upper Thames Street,

London, E.C.

NEW ZEALAND.

KEMPTHORNE, PROSSER & CO.,

NEW ZEALAND DRUG COMPANY, LIMITED

WHOLESALE DRUGGISTS,

MANUFACTURING CHEMISTS, AND COMMISSION MERCHANTS,

Head Office and Factory, DUNEDIN.

BRANCH HOUSES:

High Street, CHRISTCHURCH,
Hunter Street, WELLINGTON,
Wyndham Street, AUCKLAND,

Patent and Proprietary Medicines Agency.

NEW ZEALAND

LONDON AGENTS—

Messrs. GRIMWADE, RIDLEY & CO., 82 Bishopsgate Street.

NEW SOUTH WALES.

THE AUSTRALIAN DRUG CO., LIM.

LATE E. PROSSER & CO.,

IMPORTERS OF PATENT MEDICINES, DRUGGISTS' SUNDRIES, DYE GOODS, SURGICAL INSTRUMENTS, PERFUMERY, FANCY SOAPS, SPONGES.

EXPORTERS AND SOLE AGENTS OF "NATIVE BEAR" BRAND EUCALYPTUS OIL. IMPORTERS OF BRUSHWARE, CORDIAL MAKERS, MACHINERY, CORKS, BOTTLES, LABELS, PHOTOGRAPHIC CHEMICALS AND MATERIALS.

Wholesale Druggists, 19 & 21 O'Connell Street, SYDNEY.

Agencies for Patent Medicines and other Goods solicited. Travellers cover New South Wales and Queensland.

LONDON AGENTS: H. & A. HAWLEY, 38 LIME STREET, E.C.

TAYLOR & COLLEDGE,

CONTRACTORS TO THE QUEENSLAND GOVERNMENT,

WHOLESALE DRUGGISTS & IMPORTERS,

Manufacturing Chemists, BRISBANE, QUEENSLAND.

Importers of Drugs, Chemicals and Druggists' Sundries, Patent Medicines and Perfumery, Surgical and Photographic Sundries, Confectioners' and Dyers' Goods, Dental Sundries, Soda-water Machinery, Bottling Racks, Egg-shape and Lamont's Soda-water Bottles, and all Cordial Makers' Requirements.

All parts of Queensland visited at regular intervals by experienced Travellers. Agencies solicited from firms who are prepared to actively introduce their Manufactures into the Colony.

FELTON, GRIMWADE & CO.

WHOLESALE DRUGGISTS & MANUFACTURING CHEMISTS,

MELBOURNE, VICTORIA.

LONDON AGENTS:—

MESSRS. GRIMWADE, RIDLEY & CO., Mildmay Chambers, **82 BISHOPSGATE STREET.**

Wholesale Agents for Bosisto's Genuine Oil of Eucalyptus.

B. G. LENNON & CO., LTD.

Wholesale Druggists, Manufacturing Chemists, and Druggists' Sundriesmen,

CAPE TOWN, PORT ELIZABETH, AND EAST LONDON.

With Branches in all Important Centres in South Africa.

AGENTS FOR THE NATAL DRUG CO., DURBAN, NATAL.

LONDON OFFICE: 14 BUNHILL ROW, E.C.

AGENCIES UNDERTAKEN ON ADVANTAGEOUS TERMS.

THE TASTELESS COD LIVER OIL SUBSTITUTE.

TERRŌL.

To those who cannot take Cod Liver Oil TERRŌL is a great boon; it causes neither Nausea nor Indigestion, and interferes in no way with the comfort of the system. Indeed, quite the reverse, and no remedy so effectually takes the place of Cod Liver Oil.

TERRŌL is assimilated (see Physicians' testimonials), is of great use in all Bronchial affections, and, in Tubercular Disease (Consumption) is particular recommended, its slight antiseptic quality rendering it of double value in such complaint.

TERRŌL retains its purity and freshness for years, and does not go rancid like Cod Liver Oil and some of its combinations. The Company can therefore guarantee Pharmacists against any loss in stocking TERRŌL.

Profes. price—1/6 size (5-oz.), 15/- per doz.; 4/6 size (16-oz.), 42/- per doz. Packing free, Carriage paid.

Subject to Discount to the Trade.

Wholesale of the Proprietary Medicine and Drug Houses, and of

THE TERRŌL COMPANY, 34 DEVONSHIRE ROAD, FOREST HILL, **LONDON, S.E.**

Please note New Address, where the Company have greater and extended facilities for the prompt execution of orders.

41

TO THE MEDICAL PROFESSION AND CHEMISTS

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),
W. RENAUD, Managing Director.
38 Farringdon Road, London

CLARKE'S
WORLD FAMED
BLOOD MIXTURE
THE GREAT
BLOOD PURIFIER.

The Hon. Surgeon to his Excellency the Viceroy of India prescribes "CLARKE'S BLOOD MIXTURE" largely and speaks highly of its efficacy in skin affections, &c.—A. JOHN & CO., Chemists, &c., Agra, India.

Counter Bills and Posters, with Name and Address, also Show Cards, on application. Printed matter supplied in any Language for Foreign Agents.

CAUTION.—Immediate proceedings will be taken against all persons pirating the Trade Mark, "Blood Mixture" (Registered No. 3,275), Labels, Wrappers, Bills, or Advertisements, or in any way infringing the rights of the Sole Proprietors,

THE LINCOLN & MIDLAND COUNTIES DRUG CO., LINCOLN, ENGLAND.

CHEMICAL DISINFECTANT.
10 and 15% CARBOLIC Antiseptic and Deodorising Powder.
Bags and casks free.
AGENTS WANTED
to supply Corporations and large users.
6d. and 1/- Decorated
4/- and 8/- per doz. Boxes.
Special terms for 5 gross and upwards, with agent's name and address thereon.

CHESHIRE BIRD LIME.
In 1d., 2d., and 3d. tins. Also in 1, 2, 3, and 7 lb. Tins and Casks, for large consumers and the trade.
FLY PAPER MATERIALS
Supplied in Wholesale quantities
SPECIAL TERMS.

"COAGULINE"
(TRADE MARK).
Transparent Cement for Broken Articles.
CUE CEMENT.
CUE-TIP FIXERS
(Brass or Wood).
TIPS, WAFERS, CHALKS.

A NEW WHITE CEMENT
Inorganic, and almost Hydraulic.
KLINX
TRADE MARK.
FOR STONE, PORCELAIN, POTTERY, and all VITREOUS SUBSTANCES.
Requires no preparation, and is easy and clean in application.

Prices, Circulars with Name and Address, Specimens, Show Cards, Glass Tablets, &c., &c., on application.

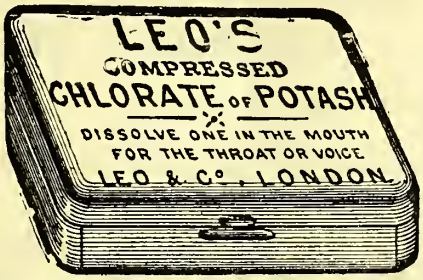
KAY BROTHERS LIMITED, Laboratory and Works, ST. PETERSGATE MILLS, STOCKPORT. Founded A.D. 1784 Incorporated 1887

LEO'S COMPRESSED DRUGS

Ammon. Brom.
Ammon. Chlor.
Antifebrin.
Antipyrin
Bismuth Subnit.
Chloralamid
Ipecac. Powd.
Ipecac. & Opium
Pepsine, B.P.
Phenacetin
Potass. Bicarb.
Potass. Brom.

Maintain their high reputation against all comers for general excellence of quality and finish.

When ordering specify LEO'S.



They are supplied by all the Wholesale Houses.

COMPRESSED CHLORATE of POTASH.
CHLORATE OF POTASH & BORAX.

Quotations given for large and small quantities.

Potass. Iodide
Quinine
Salol
Salicin
Soda Bicarb.
Soda Mint
Soda Salicylate
Sulphonal
Sulphur Compound
Urethane
Voice (Potass. Chlor., Borax and Cocaine)

[2]

LEO & CO., 16 CREECHURCH LANE, LONDON, E.C.

Diphtheria, Quinsey, Swollen, Putrid, and Ulcerated Throats.

WHEN YOU ARE TIRED OF THE
"ANTI-DIPHTHERITIC SERUM BOOM,"
TURN TO

"CURE IT"

A New Remedy, which, if taken before the air-passages are hopelessly involved, is certain to cure.

NO VACCINATION! NO INJECTION OF ANIMAL MATTER! and a CURE effected in a shorter time than by any other known method.

The medicines are absolutely FREE from any harmful ingredient, and, providing the instructions are followed out, these remedies may be SAFELY and SUCCESSFULLY USED BY EVERYBODY.

Price 26/- dozen; Retail 2/9.

Showcards and effective Bills supplied.

H. JAQUES, 140 CITY ROAD, E.C.

C. R. HARKER, STAGG & MORGAN,

Wholesale & Export Druggists,
Manufacturers of Pharmaceutical Preparations.

A few of our Specialities—

SYRUP. EASTONII AND LIQUOR, 1 to 3.

SYR. HYPOPHOSPH. CO., Bright or Cloudy.

EMULS. OL. MORRHUÆ C. HYPOPHOS., In ½ and 1-lb. bottles.

NITROUS ELIXIR.

EXT. CASCAR. SAG. LIQUID.

LIQUID ANNATTO (Horse-shoe Brand) For Cheese and Milk.

LIQUID BUTTER COLOUR.

Write for Prices and Samples.

15 LAURENCE POUNTNEY LANE, LONDON, E.C.

43

STANDARD MALT EXTRACT

RICHEST IN DIASTASE.

IS INVALUABLE FOR Invalids, Dyspeptics, Convalescents, Weakly Children and Infants.

Unrivalled in Keeping Qualities.

STANDARD MALT EXTRACT

IN COMBINATION WITH

COD LIVER OIL

Is Readily Taken by the Most Fastidious.

OF ALL CHEMISTS.

THE STANDARD MALT EXTRACT CO., LTD.

LONDON—23 Billiter Street, and LIVERPOOL—42 Castle Street.

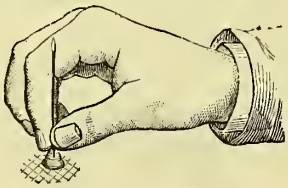
SAMPLES SENT POST FREE TO MEDICAL MEN, QUALIFIED NURSES, & CHEMISTS ON APPLICATION.

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH,

12 Pall Mall East, London, S.W.

SOLE AGENTS FOR

DR. WARLOMONT'S CALF VACCINE.



TRADE MARK, REGISTERED.

Tubes, 2s. each. Half Tubes, 1s. each.

Pomade in Vials, 5s.

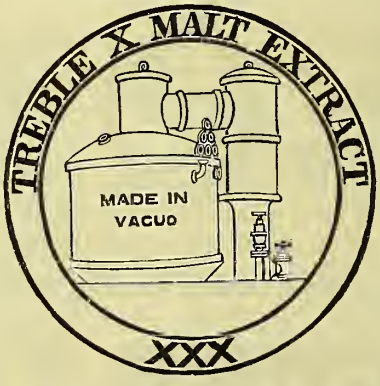
HUMAN VACCINE from healthy children only, microscopically examined, and source quoted.—Three Tubes, two-thirds full, 5*s.*; Tubes one third, 1*s.* each. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 tubes. **PIN-POINTS** (uncharged), 1*s.* per doz. **VACCINE EJECTORS,** 1*s.* 3*d.* each, including postage.

OFFICE HOURS, 10 to 4. SATURDAYS, 10 to 2.

P.O.O.'s (including Postage, and crossed London and Westminster Bank), with orders, payable to

EDWARD DARKE, Secretary.

44



A nutritious Diastatic Extract from the finest English malt.

UNEQUALLED IN DIASTATIC STRENGTH.

SOLE AGENTS—

R. MORRISON & Co.

2 Fen Court, Fenchurch Street,

LONDON, E.C.

Telegraphic Address—"IPECAC LONDON." ESTABLISHED 1833. Telephone No. 4369.

BAISS BROTHERS & CO.

Wholesale & Export Druggists & Manufacturing Chemists,

Makers of **CONCENTRATED LIQUORS,**

SOLID AND LIQUID EXTRACTS, B.P. & U.S.P., and all Pharmaceutical Preparations.

OL. LAVAND. "Special."
ESS. LIMONIS. "Special."
1894.
(Imported direct from Sicily.)
PERFUMES. "Special."
SYR. HYPOPHOSPH. CO
(Neutral and Bright).

FINEST NON-FREEZING NORWEGIAN COD-LIVER OIL (1894).
TASTELESS CASTOR OIL.
ENGLISH & FOREIGN ESSENTIAL OILS.
EXTRACT OF MALT AND EXTRACT OF MALT AND COD-LIVER OIL.
In 8-oz. and 16-oz. Amber Bottles with Artistic Labels.
EUCALYPTUS OIL.
"VIRGINIAN" SALAD OIL.

SPECIAL QUOTATIONS TO LARGE BUYERS

JEWRY STREET, LONDON, E.C.

AND NEW BROWN STREET, MANCHESTER.

"THE QUARTERLY THERAPEUTIC REVIEW," a record of all the published NEW REMEDIES, is published by us in January, April, July, and October. A Free Copy Mailed, with Prices Current, on receipt of Business Card.

HEWLETT'S

LIQ. SANTAL FLAV. c. BUCHU ET CUBEBÂ

(THE ORIGINAL PREPARATION).

Price 10/6 per lb. Dose—1 to 2 drachms diluted.

Packed for Dispensing only, in 10-oz., 22-oz., 40-oz., and 90-oz. bottles.

CAUTION.—The uniform success which has attended the administration of this remedy during the last twenty years has caused a host of worthless imitations to be offered to the Medical Profession. These imitations, whilst closely copying the title, utterly fail to approach the original preparation in quality, and only give cause to disappointment and failure.

To ensure obtaining this preparation, please write "LIQ. SANTAL FLAV. c. BUCHU et CUBEBÂ (Hewlett's)."

INTRODUCED AND PREPARED ONLY BY (2)

C. J. HEWLETT & SON, Wholesale Druggists, 40, 41 & 42 Charlotte St., LONDON, E.C.

ANTINEURALGIC.
ANTIPYRETIC.
ANTIRHEUMATIC

LACTOPHENIN.

A SOOTHING HYPNOTIC EFFECT occurring simultaneously with the ANTIPYRESIS.

LACTOPHENIN agrees well with patients.
LACTOPHENIN has given excellent results even with little children.
LACTOPHENIN has been found to be very free from injurious or disagreeable after-effects.
LACTOPHENIN has been used extensively in hospitals and in private practice with remarkably good results in Typhoid Fever, Erysipelas with violent Delirium, Croupous Pneumonia, Phthisis Florida, Megrim, Nervous Headache, Influenza, Neuralgia, Rheumatic trouble, Articular Rheumatism, etc., etc.
LACTOPHENIN has been used successfully even in cases where other remedies failed.

Samples and further particulars sent free to members of the Medical Profession on application to

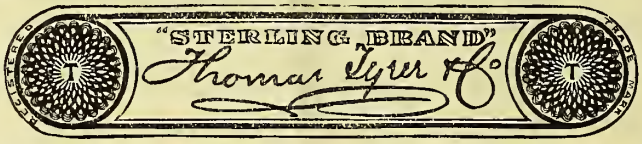
Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, LONDON, E.C.
Messrs. PARKE, DAVIS & CO., 21 North Audley Street, LONDON, W.

45

THOMAS TYRER & CO.

Stirling Chemical Works, Stratford, London, E.

DIRECTOR OF LABORATORIES,



THOMAS TYRER, F.I.C., F.C.S., F.S.S.

PHOSPHORIC ACIDS AND HYPOPHOSPHITES,
Hydrogen Peroxide and Pure Acids, Bismuth, Mercurial and Iron Salts, Granular and Scale Preparations, Ethers, Essences, Spirits (in Bond. [3] [5]

C. F. BOEHRINGER & SOEHNE,

WALDHOF, near MANNHEIM,
MANUFACTURERS OF

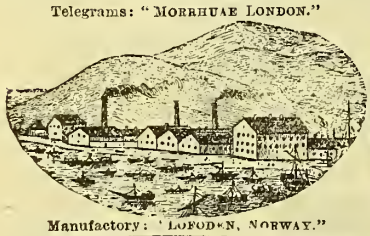
B. & S. BRAND **COCAINE** B. & S. BRAND

SULPHATE OF QUININE, and all other **CINCHONA PREPARATIONS.**
ALSO OF
ACETANILID, CAFFEINE CHLORALHYDRAT, CUMARIN, GALLIC ACID,
GLYCERINE, HELIOTROPIN, PHENACETIN, PYROGALLIC ACID,
SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.
STOCKS KEPT IN LONDON, GLASGOW, AND DUBLIN.
AGENTS.—LONDON: Messrs. DOMEIER & CO., 13 St. Mary-at-Hill, E.C. GLASGOW: Messrs. F. R. MUELLER & CO., 47 Waterloo Street. DUBLIN: Mr. JOS. LECKY, 26 Eustace Street.
Agents for Australia—Messrs. RABONE, FEEZ & CO., SYDNEY, N.S.W.

MAGNESIA

CARBONATE, CALCINED, AND HYDRATE.
THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.
LONDON AGENTS—MESSRS. CLIFFORD CHRISTOPHERSON & CO., 17 Great Tower Street, London, E.C.

Telegrams: "MORRHUAE LONDON."

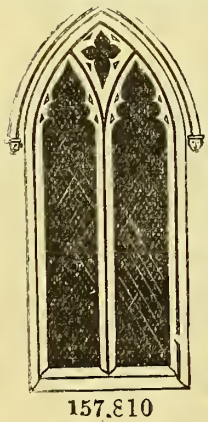


Manufactory: "LOFODEN, NORWAY."

THE "NORTH STAR" BRAND.

COD LIVER OIL.

LOFODEN COD LIVER OIL CO., 138 Minories, LONDON, E.C.



157,810
46

DR. BOW'S LINIMENT.

Of late a spurious article has been offered for sale, put up in imitation of the genuine one even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name **"DR. BOW'S LINIMENT"** (also a trade mark) appears in the Government Stamp.

BARCLAY & SONS, LIMITED, LONDON
RAIMES, CLARK & CO., EDINBURGH & YORK
} For the Proprietor, *December 1st, 1891.*

NEVER EXCELLED!!

WAND'S SOLUBLE PEARL-COATED PILLS.

OFFICIAL FORMULÆ	Price per Gross: Under 5 Gross s. d.	5 Gross s. d.	10 Gross s. d.
3 Pil. Aloes et Ferri ..	0 7½	0 6½	0 5½
13 „ Hydrarg.	0 9	0 8	0 7
17 „ Rhei Co.	0 7½	0 6½	0 5½
8 „ Colocynth Co. ..	0 11	0 10	0 9
9 „ Colocynth et Hyos	1 1	1 0	0 11

EXAMPLES OF PRICES	Price per Gross: Under 5 Gross s. d.	5 Gross s. d.	10 Gross s. d.
109. Blaud Pills ..	0 6½	0 5½	0 4½
533. Aperient (Mild) ..	0 8	0 7	0 6
(Strong)	0 9	0 8	0 7
130. Antibilious	0 8	0 7	0 6

THE "LITTLE" PILL SERIES	Price per Gross: Under 5 Gross s. d.	5 Gross s. d.	10 Gross s. d.
68. "Little" Aperient ..	0 8	0 7	0 6
400. "Little" Antibilious			
412. "Little" Cough ..			
410. "Little" Liver ..			

TERMS.—Net for Cash with Order, Carriage Paid in Great Britain and Ireland.

WAND, Pearl-Coated Pill Factory, LEICESTER.

JACKS' PILLS

THE BEST FAMILY MEDICINE ON EARTH.

They cure Constipation, Biliousness, Indigestion, Fulness after Meals, Sick Headache, Heartburn, Fushings of Heat, Cold Chills, Depressed Spirits, Sleepless Nights, Liver Complaints, Palpitation of the Heart, Pains in the Back, all Nervous Disorders, &c. &c. For Females of all ages they will be found the best medicine on earth, never failing to cure all complaints and symptoms incident to the sex. With full directions. Price 9½d., 1/1½, and 2/9, from all Chemists, or direct from the Proprietor, **THOMAS JACKS, 8 St. George's Circus, LONDON, S.E.** *Small Pill, Pearl-coated, Tasteless.* All Chemists, Druggists, and Stores should stock these pills, which are being well advertised, and. as they are really good, are now in great demand.

INDEX AND BUYERS' GUIDE

See pages 27-29.

HOLLOWAY'S PILLS & OINTMENT

Have the Largest Sale of any Medicine in the World.

MANUFACTURED ONLY AT

PROFESSOR HOLLOWAY'S ESTABLISHMENT,

78 New Oxford St. (late 533 Oxford St.), London,

And sold at 1s. 1½d., 2s. 9d., 4s. 6d., 11s., 22s., and 33s. each Box or Pot. Chemists and Druggists selling "Holloway's Pills and Ointment" can, on application to the above address, or to the Wholesale House with whom they deal, be supplied free of charge with Handbills and Posters with their name and address printed at foot.

Wholesale Terms see List of "Proprietary Articles" in most Price Currents.

FINEST CREAM & SUBLIME OLIVE OIL (Guaranteed Pure.)

FINEST FRENCH REFINED NUT OIL,

Sweet and Edible.

All kinds of Oils of Foreign and own Refining for Illuminating and Lubricating Purposes, Methylated Spirit, Turpentine, Chemicals, Colours, Disinfectants, &c.

. BOWLEY & SON, Refiners, Distillers, and Manufacturers, **WELLINGTON WORKS, BATTERSEA BRIDGE, LONDON, S.W.**

W. EDWARDS & SON,

157 QUEEN VICTORIA STREET, LONDON,

WHOLESALE AND EXPORT DEALERS IN

Patent Medicines and Proprietary Articles,

ENGLISH AMERICAN, FRENCH, &c.

SOLE AGENTS for ROCHE'S HERBAL EMBROCATION,

Burchell's Anodyne Necklaces, Ford's Balsam of Horehound, Widow Welch's Pills, by Mrs. Smithers, Oxley's Essence Ginger, and the preparations of Messrs. Hudson & Son, late of the Haymarket, London.

PRICE LISTS SENT ON APPLICATION. ORDERS CAREFULLY AND PROMPTLY EXECUTED.

47

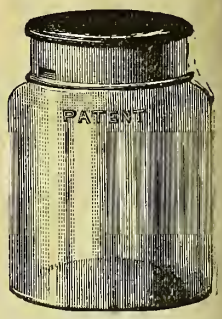
R. H. BARRETT'S PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/-; 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.



R. H. BARRETT,
FLINT GLASS BOTTLE WORKS,
THE OVAL, CAMBRIDGE HEATH, LONDON, E.
Telegraphic Address—"FOREFRONT LONDON."

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY
(I. ISAACS & CO., Proprietors)
Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—
The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. ..	7/6 per gross.	10 & 12 oz. ..	12/- per gross
6 „ 8 „ ..	8/6 „	16 „ ..	16/- „

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz.	3/6 per gross.	1½ oz.	4/6 per gross
1 „	3/9 „	2 „	5/- „

PLEASE NOTE.
Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.
Established 50 years. *Bankers—London and Westminster Bank*

MESSRS. COMPES & CO.'S

(Ceresine Wax Refiners and Carnauba Wax Bleachers)
GUARANTEED PURE

CERESINE WAX

Can now be had in single cases from their London Stock.

F. PFISTER, SOLE AGENT,
15 Fore Street, LONDON, E.C.

BOWDLEAR'S

FLOOR WAX

ALL READY. ANYBODY CAN APPLY IT. THE BEST THING FOR THE PURPOSE.

PULVERIZED for DANCING FLOORS.

IS NOT WHITE. Will Not Ball on the Feet or Soil the Garments.

The FLOOR must be CLEAN and FREE from OIL.

W. H. BOWDLEAR & CO., BOSTON, MASS., U.S.A.

SARG'S ORIGINAL BEEHIVE BRAND

Sarg's GLYCERINE.

CERESINE WAX.

"NEVER DEFER"

CERESINE WAX.

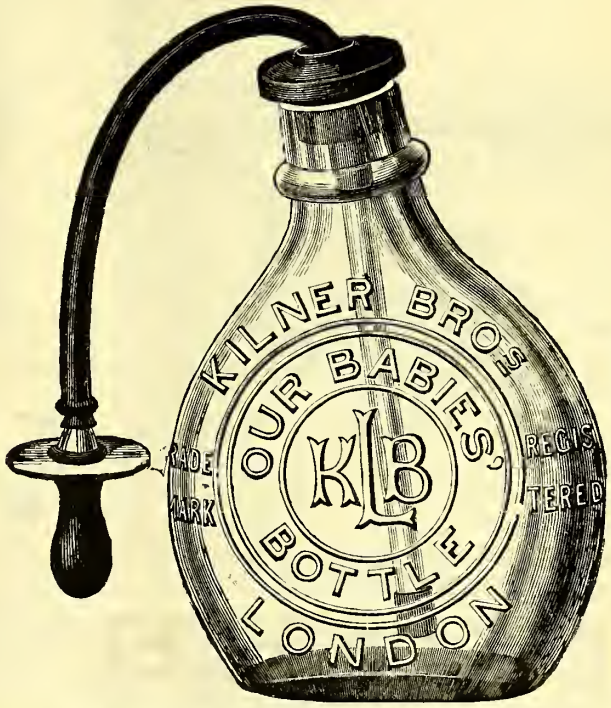
Sarg's GLYCERINE

WHITE, NATURAL, YELLOW, & ORANGE. STOCK KEPT IN LONDON OF 15 DIFFERENT KINDS.
Supplied in square blocks, each wrapped in paper and packed in cases of 1 cwt. each.
None Genuine unless Cases, Wrappers, and Blocks are branded both with Maker's Name, "SARG," and the "BEEHIVE" Trade Mark.

Sole Agent: FREDK. BOEHM, 4 Cullum St., LONDON, E.C.

GLASS BOTTLES

DISPENSING.



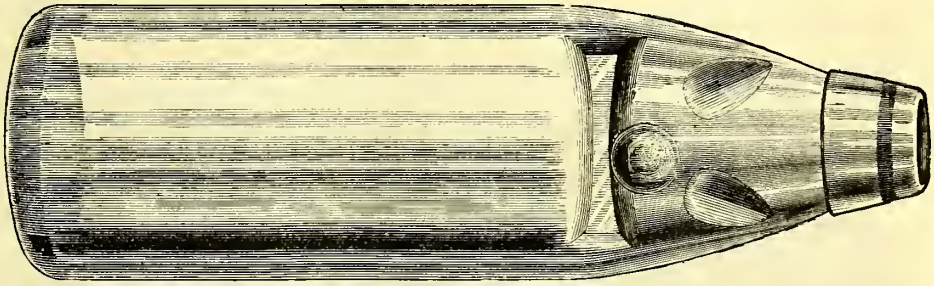
FEEDING.

MINERAL WATER BOTTLES

Of all kinds and sizes for STOPPERS and CORKS.

CODDS' BOTTLE

TWO-WAY.



Also VAN BOXES and CASES for same

Full particulars of above and many other kinds, sent on application to

KILNER BROTHERS,

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS

Are now working in Almost Every Trade where DRY POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation.

For Illustrations see the C. & D. Diary, 1895, *page* 351.

For HAND or POWER

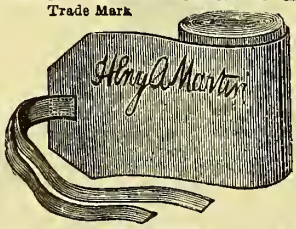
Prices from 48/- to £90.

CATALOGUES FREE.

WM. GARDNER, Engineering Works, GLOUCESTER.

DR. MARTIN'S PURE RUBBER BANDAGES.

Trade Mark



For the Radical Cure of Varicose Veins, Ulcers, and other Diseases of the Leg.

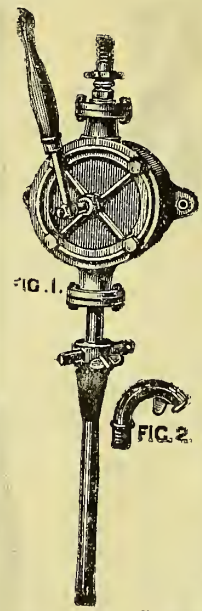
CAUTION.—Please order *Genuine Martin's Bandages* each being stamped with Dr Martin's signature. All others are *Spurious Imitations.*

Complete Price List, Trade Discount, and Dr. Martin's Pamphlet post free.

PRICES.

No.		Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm	6	2¼	3/6
3.	Thick " " " "	6	2¼	4/-
1B.	Thin, for leg below knee..	10½	3	5/6
1A.	Thick " " ..	10½	3	7/6
8.	Thin, for leg and knee ..	14	3	7/6
7.	Thick " " ..	14	3	9/6
9B.	Thin, for leg and thigh ..	21	3	10/6
9A.	Thick " " ..	21	3	13/6

Sole Agents—KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS, 8 DUKE ST., MANCHESTER SQUARE, LONDON, W



BUY THE BEST OIL PUMP

AND SAVE

OIL, TIME, MONEY.

THOUSANDS IN USE.

We have bought the Stock of these Pumps from MESSRS. PONTIFEX & WOOD, *SHOE LANE, LONDON,* Who have given up this part of their business, and it is our intention to continue same.

We hold a Good Stock, and can give Prompt Delivery.

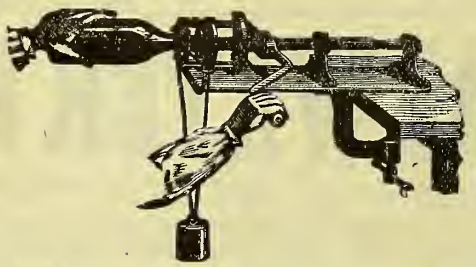
Write for full particulars and prices of The "Farringdon" Patent Oil Pumps to

W. H. WILLCOX & CO.

34 & 36 Southwark Street, LONDON, S.E.

NEW CAPSULING MACHINE

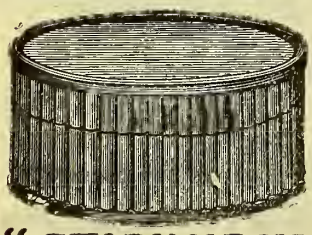
The only Machine which leaves no crease or pleat on the Capsule.



Can be fixed to any Counter. A single pull of the lever is sufficient to fix the Capsule.

Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.

THE "STIPENDUM" STOPPER CO., LIM.



47 LAMB'S CONDUIT ST., LONDON, W.C.,

MANUFACTURE THE FOLLOWING SPECIALITIES—

"STIPENDUM" CORK STOPPERS, in all sizes.

"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.

"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles

"STIPENDUM" GREASE-PROOF COVERED POTS.

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable and the only articles really answering the purpose intended

To be had of all Druggists' Sundriesmen. *Wholesale only of the Company.*

GOOD LINES FOR

CHEMISTS' SPRING TRADE.

SPONGE BAGS.

NEW. CHECK SATTEEN.

No.	1	2	3	4	5	6	7
	5/9	7/-	8/6	10/-	12/-	14/-	16/-

per doz.
Order above as Check pattern to prevent error.

SPRAY PRODUCERS.
DOUBLE BELLOWS.
14/- 15/- 20/- 27/- 30/- 33/- per doz.

PUMP ACTION.
30/-, 36/-, and 39/- per doz.

FANCY PERFUME BOTTLES.

FLASK SHAPE
As Fig. A.

SWAN NECK
4/-, 4/6, and 5/6 per doz.

A Large Assortment kept in Stock.

For Illustrations see New List.

PHOTOGRAPHIC SUNDRIES
Supplied at Low Rates.

SPONGES ON CARDS
at Half the marked Retail Prices.

FLESH GLOVES.

	Per doz. pairs.
3d. Turco, White	1/10
6d. " "	2/8
6d. " Bound	3/-
1s. " "	4/-
1s. " " Super ..	5/-
1s. Calefacio, Brown	4/6

&c., &c., &c

PERFUMES.

6d. Globular	3/9
1s. "	7/-

Above are quite new, and are selling well.

SMELLING-SALT BOTTLES.
New Emerald Green, very pretty; Assorted Patterns.
1s. Retail .. .. per doz. 8/-
Also Coral, Amethyst, and Crystal Glass.
Over 200 patterns to select from.

ENEMAS.

Cheap Black	19/6
"Flexible"	21/-
"Favorite"	22/-

FRANCIS NEWBERY & SONS,
DRUGGISTS' SUNDRIESMEN,
1 & 3 KING EDWARD STREET, LONDON, E.C

WHOLESALE & EXPORT orders for

MASON'S

PERFUMED SOLUTION OF

CARBOLIC ACID

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

TERMS UPON APPLICATION

J. ROBBINS & Co. 147 OXFORD ST.

METHYLENE.

Obtained by the action of Metallic Zinc on Chloroform and Alcohol.
Discovered to be a general Anæsthetic by Sir BENJAMIN W. RICHARDSON in 1867.
1-lb. Stoppered Bottle, 12s.; ½-lb., 6s. 6d.; 4-oz., 3s. 6d.; 2-oz., 2s.

COMPOUND ANÆSTHETIC ETHER,
For producing Local Anæsthesia.
In 4-oz., 10-oz., and 20-oz. Stoppered Bottles, 2s., 4s., and 7s.

OZONIC ETHER,
In 2-oz., 4-oz., 8-oz., and 16-oz. Stoppered Bottles, 2s., 3s. 6d., 7s., and 12s.

PEROXIDE OF HYDROGEN,
First introduced as a Medicine by Sir BENJAMIN W. RICHARDSON.

ETHYLATE OF SODIUM
(Sir BENJAMIN W. RICHARDSON'S Formulæ), for removing Nævi, &c.
In ½-oz. and 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s.

STYPTIC COLLOID,
For promoting the Healing of Wounds by the first intention.
In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 16-oz., 12s.

CHARCOAL CAPSULES,
Containing Pure Vegetable Ivory Charcoal.
In Boxes, 2s. 6d. each.

J. ROBBINS & Co. OXFORD ST. 147

Shirleys' Corner!

MENTHOL CONES.

4d. Pedestal	2/9 dozen.	1d. at 6/8, 6/11, 7/2 per gross.	
6d. "	3/3 "	2d. Pedestal	14/- "
6d. Flat ..	3/3 "	2d. Pocket	14/- "
1/- " ..	6/3 "	3d. Pedestal	1/10 dozen.
		6d. Celluloid	3/6 and 4/- doz.
		1/- "	7/- dozen.

Insist on Menthol being on New Registered Head Card.

SOOTHERS.

					Per doz.
	1d. Cord ..	7/- gross.	3d. Bone Ring		1/6, 1/8, and 1/10
	1d. Ring ..	8/6 "	3d. Celluloid Ball		.. 2/-
	2d. " ..	14/- "	No. 21 Coloured Mount Bone Ring		.. 2/8
	2d. Wonder	10/- "			
	3d. Rubber	2/- doz.	No. 21R Coloured Mount Rubber Ring		.. 2/9
	3d. Cord ..	16/- gross.	No. 24 MOTTLED		.. 2/10
			No. 20 6d. Solid Corrugated		3/6

Double your Sale and Order on our Splendid Head Card—Baby with mouth open and Soother in it!

FULLER'S EARTH.—Special Value in Coloured Card Barrels. 14/- gross and 2/- dozen.

VIOLET POWDER.—In beautifully decorated Tin. 3/6 doz.

A1 Eucalyptus Shells, 6/6 gross
Ditto (Reg.), with mirror, 7/- "

A1 Pocket Eucalyptus Disinfectant, in perforated pocket tins, 7/- gross.

CACHOUS.—Beautiful Pocket Tin, filled .. .. 7/- per gross.

No. 356.—**New Feather Monster Salt Bottles,** Assorted Colours.
Empty, 2/9 dozen. Filled, 3/6 dozen.
No. 357.—**Wide-Mouth, Flat-Headed, Clear Smelling Jar.**
Suitable for Ammonia Balls and Coloured Liquid, 4/- dozen.

SPECIMEN STAND, Tube Shape, Conical Glass Stopper 7/- dozen. Never such Value Known!

☞ Large Buyers.—Write to SHIRLEYS' before ordering a quantity of anything. You will save money by doing so.

SHIRLEY BROS., 105-7 WHITECROSS ST., E.C.

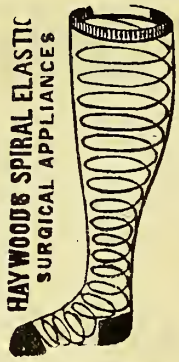
EVANS' SALINE.

A medical man often wants to prescribe an Effervescing Saline with Chlorate of Potash, but is unable to do so for want of a Saline with a published percentage of Chlorate. Moreover, by the nature of its manufacture, a chemist is unable to dispense it in a limited time, even if prescribed. The above Saline is now stocked by many chemists, and thus a real difficulty is obviated.

The peculiarity of this Saline is that the Chlorate of Potash, in the proportion of about 2 per cent. (really 1·9), is in a state of minute subdivision, with, at the same time, a slight excess of Tartaric Acid. The latter gives a pleasant sharpness to the effervescing draught, whilst the former seems to have almost a "specific" effect in bilious headache and feverish system.

Evans, Lescher & Webb, LONDON — **Evans, Sons & Co.** LIVERPOOL.
EVANS AND SONS (LIM.) MONTREAL.
[12]

Adjustable Stocking (Patent.)



(*Seamless.*) Patent.

A GOOD PROFIT MAY BE MADE BY SELLING

HAYWOOD'S PATENT SPIRAL SEAMLESS SURGICAL ELASTIC ASEPTIC STOCKINGS,

&c. SOLID or ADJUSTABLE.

They are made on an entirely different principle to those *hitherto sold.* The India-rubber Thread, woven in one continuous length, adapts itself to the shape of the limb, and gives equal pressure throughout.

There are no *seams* or *binding* to *irritate* the limb. They are made in *healthy workshops*, and each article is thoroughly *disinfected* (by which all morbific agents are killed) and packed in Air-proof Wrappers before being sent out.

Manufactured in SILK, WOOL, THREAD, and COTTON—Fine, Medium, and Stout Qualities.

REGULARITY IN SIZE GUARANTEED.

Handbook of my Manufactures will be forwarded to any Surgical Instrument Maker or Chemist free.

SCIENTIFIC UNDERCLOTHING.

The New DUAL Chest and Back Protector, Belt, &c.

Before ordering Winter Goods, write for Lists and descriptions of this New Article.

ot Water Bottles and Covers, Respirators, Inhalers, Bronchitis Kettles, Throat Sprays, Waterproof Coats, Cloaks and Driving Aprons, Footballs, Shin Guards, and Athletic Appliances, Druggists' Sundries, Invalid and Nursery Appliances, &c.

MANUFACTURER AND PATENTEE—

J. H. HAYWOOD. *Surgical, Electrical, Athletic, and Veterinary Appliance Manufacturer.* **CASTLE GATE, NOTTINGHAM**

A. LAMBERT & CO.

MANUFACTURERS OF

SURGICAL INSTRUMENTS & APPLIANCES,

IN

Silver, Electroplate, Cut Sheet Rubber, &c , &c.

ALSO KNOWN AS SOLUBLE QUININE PESSARIES.

ABSOLUTELY RELIABLE.

TRADE PRICES MODERATE.

SALE UPWARDS OF 4,000,000.

BONA-FIDE MAKERS, NOT DEALERS.

MAKERS AND SOLE PROPRIETORS OF

LAMBERT'S SOLUBLE QUININE TABLETS.

A Soluble Quinine Pessarie of proved absolute reliability.
Upwards of 4,000,000 have been sold without a complaint of failure.

PESSARIES & CUT SHEET RUBBER GOODS A SPECIALITY, AT BOTTOM TRADE PRICES.

We have a List of Special Articles for Chemists that command a ready sale at large profits (especially in the Colonies); a copy will be sent to any part of the world on receipt of trade card.

GOOD COLONIAL AGENTS WANTED WHERE NOT ALREADY REPRESENTED.

ALSO KNOWN AS SOLUBLE QUININE PESSARIES

ABSOLUTELY RELIABLE.

TRADE PRICES MODERATE.

SALE UPWARDS OF 4,000,000.

A. LAMBERT & CO., 16 DALSTON LANE, LONDON, N.E.

52

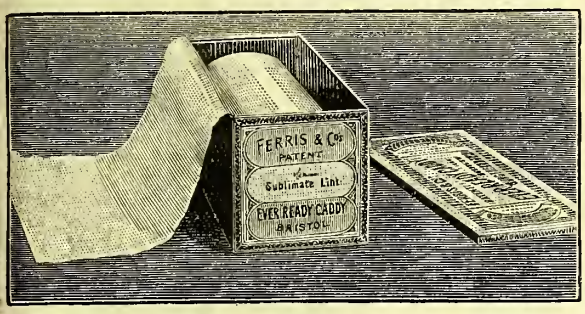
FERRIS & CO.'S Patent "EVER-READY" CADDY

AND

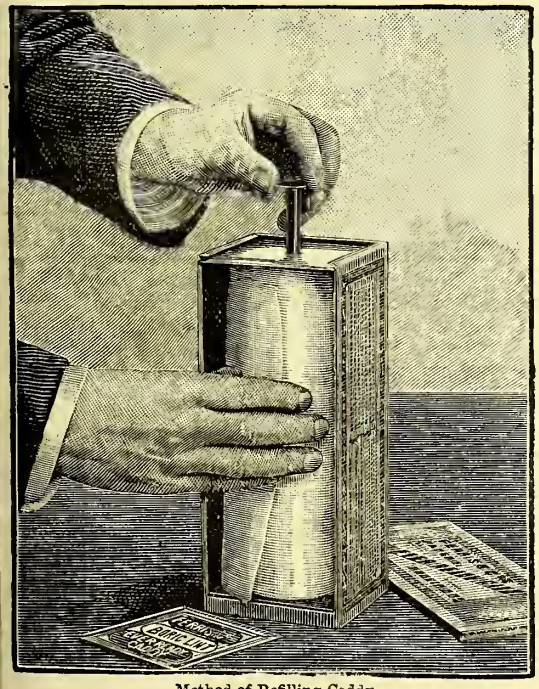
"Ever-Ready" Plasters and Dressings.

THE PATENT "EVER-READY" CADDY

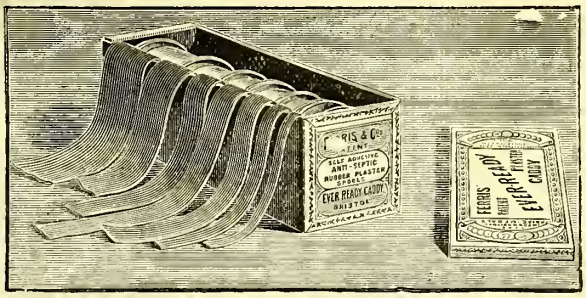
Is a novel and elegant invention for keeping **Spread Plasters, Strapping, Lint, Wool, Antiseptic Gauze, Gutta Percha Tissue, Oiled Silk,** and other Surgical Dressings, in perfect condition, clean, without waste, and in the smallest possible compass.



Dressings stored on this new patent principle are always handy and ready for use; the original outlay is very trifling, and the contents can be renewed from time to time without the necessity of purchasing a fresh Caddy.



Method of Refilling Caddy.



The **"Ever-Ready" Cylinder Wound Plasters and Dressings** for the Patent Caddy are supplied at rates which compare favourably with the prices charged for the old style of plasters, lints, &c.

The **"Ever-Ready" Dressings SAVE WASTE,** and are consequently **CHEAPER TO USE.**

"EVER-READY" PLASTERS

Cylinder wound in one continuous piece, 8 inches wide, spread on calico, swansdown, or felt, in rolls of 2 to 6 yards, according to material. Tape plasters, various widths, on spools.

"EVER-READY" PROTECTIVES

Cylinder wound, 8 inches wide. Guttapercha tissue 12 yards on a roll. Oiled Silk Jaconet, and other protectives, 6-yard rolls.

"EVER-READY" LINTS

Half-pound rolls, cylinder wound in one continuous piece, 8 inches wide. All kinds of plain and antiseptic lints in stock.

"EVER-READY" ANTISEPTIC GAUZES

Cylinder wound, 12 yards (full width) on each roll.

"EVER-READY" WOOLS

Cylinder wound, in rolls about 6 to 8 oz. each, 8 inches wide. Absorbent wools, antiseptic wools, Gamgee tissue, &c.

Each Dressing is fitted in a separate Caddy, which can be refilled as required.

MAHOGANY CABINET, holding Ten Small (A) and Eight Large (B) Caddies.

The PATENT CADDY is made in two Sizes, to suit different kinds of Dressings.

Prices and Full Particulars on Application to the Sole Patentees—

FERRIS & CO., UNION STREET, BRISTOL.

"An Embrocation that acts like Magic."

WALKER'S

SEMOTINE

For Rheumatism, Sciatica, Lumbago, Pains in the Back and Joints, Stiffness, &c., &c.

BEING EXTENSIVELY ADVERTISED.

Of all Chemists, Drug Stores, &c, everywhere, 1/1½, 2/9, 4/6;
Wholesale Prices: **8/6, 20/6, 34/-**

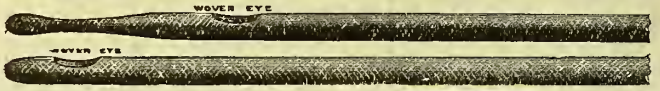
SOLE AGENTS—
F. NEWBERY & SONS, King Edward St., **LONDON.**

ESCHMANN BROS. & WALSH.

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses.



To be had of all Surgical Instrument Makers and Wholesale Houses.

WATERPROOF FABRICS, ETC.

HOSPITAL SHEETINGS. PINK JACCONET. BANDAGE CLOTHS. WATER-PROOF LINT.

THE VICTORIA RUBBER CO., LIM. Victoria Indiarubber Mills, **EDINBURGH.**

London Office and Warehouse—74 and 75 FORE STREET, E.C. Samples, &c., on application.

SOLPORT BROS.

Telegrams—
"SOLPORT, LONDON."

66, Shaftesbury Street, New North Road, LONDON, N.

Manufacturers for Wholesale and Export of

BATH & FLESH GLOVES, STRAPS, PADS, &c.

CHEST PROTECTORS, CORN and BUNION PLASTERS, &c.

LOOFAHS & LOOFAH GOODS.

Buyers and Shippers should write for our full Illustrated Price List.

KAHNEMANN & KRAUSE,

VIENNA,

Manufacturers of all kinds of

ASEPTIC AND ANTISEPTIC SURGICAL DRESSINGS, &c.

Special Novelties of the Vienna Medical School, as used by Drs. BILLROTH, BRAUN, CHIARI, MOSETIG, &c., &c.

SOLE MANUFACTURERS OF THE

NEW PATENT BANDAGE ROLLS

SPECIALLY ADAPTED FOR HOSPITAL USE.

These Rolls, which, on account of their greater convenience and cheapness, are rapidly replacing the ordinary calico bandages, are made in bleached and unbleached cottons and gauzes, from 33 inches to 36 inches wide, from which bandages of any width can be easily cut as required, the edges remaining quite firm and smooth.

Each Roll is packed separately in a box, and has attached to it a gauge divided into inches to cut by.

AGENT FOR GREAT BRITAIN—

H. GODWIN, 2 St. George's Avenue, **ALDERMANBURY, E.C.**

"NATIONAL" {Trade Mark.

RUBBER ADHESIVE PLASTER.

On Strong Cotton Cloth.

Will always *stick at once*, and *perfectly*, in any temperature. without warming.

In Tins containing { 7½ inches × 1 yard; 7½ " × 6 "; 12 " × 5 " } and on Handsome Spools { ¼ in., ½ in., ¾ in., 1 in. 1½ in., 2 in., and 3 in. wide.

MANUFACTURED BY

A. de St. DALMAS & CO., LEICESTER.

VINCENT WOOD'S

is the NATIONAL HOUSE FOR

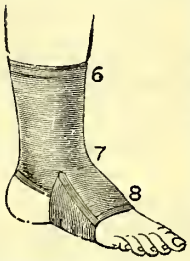
SURGICAL APPLIANCES

Trusses from 11s. 6d. per doz., springs guaranteed.

Special orders invariably despatched same day as received.

Goods procurable from all Wholesale Houses or from Patentees.

Established over 50 years.



Suspensory Bandages from 2s. per doz.

Head Office: 3 St. Andrew's St., HOLBORN CIRCUS E.C.

Steam Works and Rubber Mills: RUSSELL ST., NOTTINGHAM; Also at MAIN ST., CARLTON, NOTTS;

And Engineering Works: Railway Arches, Herne Hill, S.E.

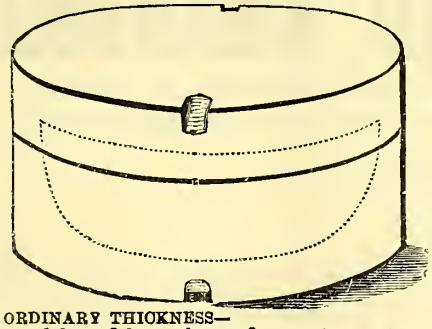
WILLIAM TOOGOOD.

TOOGOOD'S

IMPROVED PATENT

EARTHENWARE COVERED POTS

Are claimed to be the most perfect and convenient yet offered to the Trade



Owing to the increasing demand for our Patent Pots, we have introduced a Special THIN Series for Dispensing.

These Pots are beautifully glazed and finished, and, being very light, are specially adapted for sending by post.

	1 dr.	2 dr.	½	¾	1	1¼	2	3	4	6	8 ounces.
ORDINARY THICKNESS—	1/6	1/6	1/6	1/8	1/10	2/-	2/3	2/10	3/6	4/6	5/6 per doz.
THIN FOR DISPENSING—	½	¾	1	1½	2	3	4	6	8 ounces.		
	1/7	1/9	2/-	2/2	2/5	3/-	4/-	5/-	6/- per doz.		

TOOGOOD'S DISPENSING BOTTLES
TOOGOOD'S PERFUMERY BOTTLES
TOOGOOD'S MEASURES
TOOGOOD'S DRUGGISTS' SUNDRIES

NEW ILLUSTRATED PRICE LIST FOR 1895 FORWARDED POST FREE ON APPLICATION.

BURLINGTON BUILDINGS, HEDDON ST., REGENT STREET, LONDON, W.

BOXES

ESTABLISHED 18 39 ESTABLISHED

ROUND, OVAL, SQUARE, or FOLDING, for the

DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.

LABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL AND OTHER BOXES FREE OF CHARGE.

BOXES AND CASES FOR

Baking Powder, Black Lead, Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fuller's Earth, Folding Boxes, Glass Top Outers, Homœopathic Bottles, Insect Powders, Ink Cases, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post Pastilles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes, Tapers, Tooth Powder, Violet Powder, &c.

ROBINSON & SONS, LIM., WHEATBRIDGE MILLS & HOLMBROOK WORKS, CHESTERFIELD,

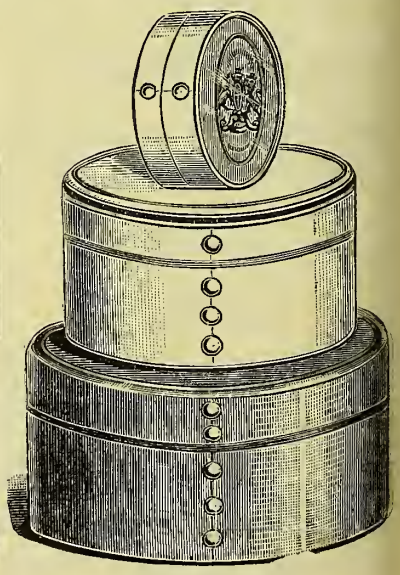
And 55 FANN STREET, ALDERSGATE STREET, LONDON.

T. REMUS'S 30, 32 & 34 Tabernacle St., LONDON, E.C.

ROUND CARDBOARD BOXES

(WITH ORNAMENTAL RIVETS).

No.	Diameter in Inches.	Depth in Inches.	A Plain.	B Shoulder and Lid of Box Coloured.	—
			Per gross.	Per gross.	
5	2	1	7/9	8/6	Dies for embossing are charged extra, from 10s. to £2 10s., according to design; but if 25 gross are ordered, the die is not charged.
6	$2\frac{3}{8}$	$1\frac{3}{16}$	9/6	10/3	
8	$3\frac{1}{8}$	$1\frac{9}{16}$	14/3	15/3	
10	$3\frac{15}{16}$	$1\frac{31}{32}$	19/–	20/3	
12	$4\frac{3}{4}$	$2\frac{3}{8}$	25/–	27/–	
14	$5\frac{1}{2}$	$2\frac{3}{4}$	33/–	35/–	
16	$6\frac{5}{16}$	$3\frac{5}{32}$	47/3	50/–	10 % discount allowed on 12 gross and upwards.
18	$7\frac{1}{16}$	$3\frac{17}{32}$	65/3	69/–	



LIDS MAY BE EMBOSSED, LABELLED, OR GOLD BLOCKED.

The charge for embossing top of lid is as follows:—

No. 5 to 10	1/6 per gross	extra.
No. 11 to 16	2/6 „	
No. 17 & 18	3/– „	

WRITE FOR SAMPLES AND FURTHER PARTICULARS.

56

PARIS EXHIBITION, 1889.

PRIZE MEDAL AWARDED TO

"SALVO PETROLIA"

Absolutely Genuine Paraffinum Molle of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities—

WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.

PACKED IN TINS, 1, 5, 10, 14, 28, 56, and 112 lbs.—Also in 3-cwt. casks.

Samples and Prices on application.

"EDIBLE SALVO PETROLIA,"

For Public Speakers, Actors, and Singers.

1*s.* 6*d.* per Tube.

"OLEUM DEELINÆ"

(REGISTERED).

Universally adopted by the Medical Profession for

OPHTHALMIA, SCURVY, RINGWORM, ECZEMA, AND ALL SKIN-DISEASES.

For External and Internal Irritation of every kind.

PACKED IN CASES—

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles.

Pint Bottles, 4*s.* 6*d.* each, less Trade Discounts.

For Hospital and Dispensary purposes in larger quantities.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

The above are Manufactured Solely by the Proprietors,

THE DEE OIL COMPY.

LIMITED.

Works—SALTNEY, CHESTER.

LONDON OFFICES—

49 LIME STREET, E.C.

Liverpool, Dublin, Manchester, Glasgow, Hull, Cardiff, Bristol, Belfast, Barrow-in-Furness, Nottingham, Paris, Hamburg, &c.

EVERY CHEMIST SHOULD SELL

"HIS OWN"

BROWN BOOT POLISH

Made and put up for him in 3-oz. stone bottles, each in carton, at **3/6** dozen, by

BLEASDALE, LIMITED,

YORK.

EDINBURGH, 1890.

BOTH HIGHEST AWARDS.

JAMAICA, 1891.

DISINFECTANTS.

"Pineotas" Powders, Fluids, and Soaps; Carbolic Powders, Fluids, and Soaps; Crude Carbolic Acid; 95/97% Pale Carbolic Acid; 97/99% Water-white Acid; Petroleum Jelly.

SHEEP DIPS, POWDER AND FLUID.

WANDSWORTH CHEMICAL WORKS, LTD.

WANDSWORTH, S.W.

AGENCY—116 PRINCESS STREET, MANCHESTER.

AGENTS WANTED.

"THE MOST POWERFUL GERM DESTROYER AT PRESENT KNOWN TO SCIENCE."

IZAL

DISINFECTANT (Non-poisonous).

Now supplied by the chief Wholesale Houses.

Show Cards, Pamphlets, Printed Matter,

And any information the Trade may require, can be obtained on application to

Allen & Hanburys,

BETHNAL GREEN,

LONDON,

Who are the Sole Bottling Agents for the Manufacturers.

FRED^K FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES: Glycerine — Gum Arabic — Gum Tragacanth—Pure Beeswax—Honey.

ROSS'S ROYAL BELFAST GINGER ALE

Sole Purveyors to Spiers & Pond (Lim.)

E. H. THIELLAY'S (Registered 1867)

MOUSQUETAIRE

A bright Fixing Liquid for the special training of the MOUSTACHE. Invaluable to Medical Men, repelling infectious miasma from the respiration. In Cases, with Brush, Pom.-Hongroise, &c., at 2/-, 3/6, 5/-, 7/6, &c.
Most successful Novelty, 2/- sample post free 15 stamps.
All Wholesale Houses, or direct from
E. H. THIELLAY.
Parfumeur-Chimiste, Amersham Park, New Cross, LONDON.
(SHOW ROOMS AT CHARING CROSS HOTEL.) [1]

DENTISTRY! DENTISTRY!

Mechanical Dentistry for the Profession. In Gold, Dental Alloy, Vulcanite Tubes, Celluloid, Gum Section.
Repairs. Implicit Attention to Instructions. Best Work and Materials and Punctuality Guaranteed, and Lowest Charges.

FENTIMAN & CO., Dentists, 2 Upper East Smithfield, London.
The only Address.] *Please note down Address and Name.* [Established 1835.

VENIOS ORAL CREAM FOR THE TEETH
PREPARED BY LUTHENI & Co. BLACKBURN, Eng. Sample Tube 1/- Post Free

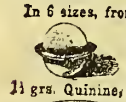
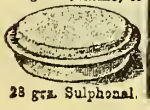
IN COLLAPSIBLE TUBES, BOXED.
Sample Dozen 8/- *Carriage Paid.*
TESTIMONIALS FROM
Madame Georgina Burns,
J. T. Ainslie Walker, F.C.S.,
F. Sharples, F.R.C.S., F.R.C.P.

CRETA BRAND G W N **PRÆCIP.**

Much Lighter and Finer than any other in the Market.
Prices and Samples on application to SOLE AGENTS—
H. E. Stevenson & Co.,
130 *Southwark Street, LONDON, S.E.*

JUNE'S HEALTH BATH SALT.

A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.
GOOD PROFIT GUARANTEED.
WRITE FOR SAMPLES & TERMS,
LANDOR, ANDERSON & CO., 165 FENCHURCH STREET, E.C.

In 6 sizes, from

1½ grs. Quinine, to

28 grs. Sulphonal.

MORSTADT CACHETS
THOS. CHRISTY & Co 25 Lime St E.C.

PRECIPITATED CHALK, WHITEST & PUREST.

Specially prepared for Dentifrices and Toilet purposes.
Guaranteed free from Iron or Acid. Cheapest Sellers in the Market.

AUG LEVERMORE & CO, 8 LIME STREET, LONDON, E.C.
Telegrams—"LEVERMORE LONDON." A B C Code used.

Invaluable for Cyclists, Footballers, Golfers,

RYPONA

For Rheumatism, Lumbago, Sciatica, Sprains, &c.; also for Cuts, Wounds, Boils, and Skin Affections.
Of all Chemists and Patent Medicine Vendors—
Liniment, 1/1½ & 1/9; Ointment, 7½d.
Wholesale of
MESSRS. SANGER & SONS, BARCLAY & SONS (LIMITED), and NEWBERY & SONS, LONDON.

Athletes, and anyone liable to a Chill.

See page 46 (bottom folio) of "The Chemist and Druggist," December 1, 1894.

NESS & COMPANY, DARLINGTON,

SPECIALISTS IN

SHEEP DIPS (Fluid, Paste, Powder) and **DISINFECTANTS.**

Highest Award World's Fair, Chicago, and Four Gold Medals.

WRITE FOR PARTICULARS AND SAMPLES.

"SILVERY WHITE GUTTA PERCHA ENAMEL"
TRADE MARK.

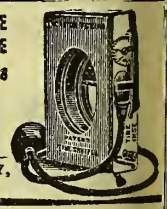
Registered—No. 2745

TOOTH STOPPING.

P. A. STEVENS, Surgeon-Dentist,
72 MANSFIELD ROAD, N.W.
SOLE PROPRIETOR AND MANUFACTURER.

Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name.
A ample box of 3d. sticks sent post free for 12 stamps. Price list and sample free.

THORNTON-PICKARD CATALOGUE POST FREE
ARE THE **SIMPLEST & BEST.** Time & Instantaneous **SHUTTERS**
LARGEST SALE IN THE WORLD
Time & Inst., from 18/6; Snap Shot, from 10/-; Focal Plane, from 85/-



THE THORNTON-PICKARD M'F'G COMPANY,
ALTRINCHAM, NEAR MANCHESTER.

BENNETT & JENNER, STRATFORD, LONDON

SPECIALITIES:

Acid, Sulphurous	Caramel (Colouring) Solid and Liquid.
Calcium Bisulphite (Special for Export, s.g. 1100).	Hydrogen Peroxide (Special for Export).
Calcium Sulphite	Sodium Bisulphite
,, Chloride, Pure	,, Sulphite

CHEMISTS' BOXES

Of New Design, Perfect Purity, & Perfection of Finish.
Chemists wanting either Choice Super Quality or Cheap Boxes should send for Price List and Samples to

A. BARRY,
35 LEONFIELD ROAD, HIGHBURY NEW PARK, LONDON, N.
CHEMISTS' BOXES A SPECIALITE.

GLENDENNING'S BEEF AND MALT WINE.

THE FINEST PREPARATION OF THE KIND IN THE MARKET.
Prices and terms on application. Agents appointed.

W. GLENDENNING & SONS, Importers of Special Wines for Invalids,
9 GRAINGER STREET, NEWCASTLE-ON-TYNE.
Established 1867.

This Space is Let for a Series to
SAUNDERS BROTHERS,
Manufacturing Chemists, &c.
Offices: 6 ROCHESTER SQUARE, LONDON, N.W.
Keen Buyers of all CHEMICALS, DRUGS, and SUNDRIES should write for Quotations.
ENOUGH FOR THE WISE.

LARGE PROFIT TO RETAILER.
COSMOSINE
THE ANTISEPTIC SALINE FOR THE BATH & TOILET-WATER.
IMMEDIATELY SOFTENS HARD WATER
Refreshing and Invigorating, Delightful to the Skin.
Prepared by COSMOSINE CO., Granby Row, Manchester.
Exquisitely Perfumed. Retails, Boxes, 1s. and 2s 6d.
Terms direct, or through Wholesale Houses.

PROFITABLE EXTRAS FOR CHEMISTS.
"MIXED PARCELS."
Every requisite for Smokers in One order. Maximum of profit—Minimum of trouble.
Send Postcard for Illustrated Price List (60 pages) free.
SINGLETON & COLE, BIRMINGHAM.

L. A. DELATOUR FRÈRES,
A RAVILLOLES PAR ST. LUPICIN, JURA, FRANCE.
(Late Alphonse Delatour. Established 18 9.)
Manufacturers of Turnery Goods in Bone, Horn, Boxwood, &c.
Specialities of Bone Pipes for Enemas and Injection Bottles. Articles of every description for Surgical and Chemical Appliances. Bone Ring Settings for Baby Comforters, and New Patent Teething Pads. Very low prices.
Prices and Samples on application.
PROVISIONALLY PROTECTED.

Chemists should try our new **2d.** Line.
LAKE MILLAR'S
INFECTION KILLER.
PRICE 2d. EACH.
Handsomely put up in Glass-top Cases.
Sample Case post free for 3/- of
LAKE, MILLAR & CO., Manufacturers, Handsworth, BIRMINGHAM.
Thousands already sold. Repeat orders from every customer.
Give it a trial.
Money refunded with pleasure if you are not satisfied.

TO LET.

KOMCHACIN CALORIC
Has for Twenty Years Cured
PILES, HEMORRHOIDS, AND FISSURE.
As this Remedy is now being extensively advertised, Chemists should write for particulars to Central Depôt for the United Kingdom,
23 The Pharmacy, Allerton, Bradford, Yorks.
Manager—A. A. KNIGHT, Chemist.

IRISH VELLS, *In 50 & 100 doz. Casks.*
IMPORTED BY
A. & J. WARREN,
Wholesale Druggists and Methylated Spirit Makers,
Makers of Essence of Rennet for Cheese.
Supplied in 40 and 20 gallon Casks and 10-gallon Tins, also in smaller packages, bearing their name.
23 & 24 REDCLIFF STREET, BRISTOL.

PRIME EXTRACT OF RENNET.
BUTTER COLOURING (IN OIL).
ANNATTO (LIQUID AND CAKE).
Prices in Bulk or Bottle. Plain Label, if desired.
J. W. BAKER, 12 Lewin's Mead, BRISTOL,
Proprietor of CLEMENTS' DAIRY PREPARATIONS.

KARSWOOD CREOSOTE.
A SPÉCIALITÉ for INHALING from a POCKET HANDKERCHIEF.
Cures Whooping Cough, Croup, Bronchitis, Asthma, Sore Throat, Influenza, Catarrh, and Hay Fever.
Bottles, 11/-, 27/-, 42/- per dozen. [1]
E. C. HUGHES, Chemist, Victoria St., MANCHESTER.

THE MALVERN SELTZER
REAL SODA
POTASH, LITHIA
THE ALPHA-BRAND MALVERN TABLE WATERS
W. J. BURROW, THE SPRINGS, MALVERN

INDEX & BUYERS' GUIDE,
SEE PAGES 27-29.

HOMŒOPATHICS
WATSON & WATES'
REDUCED PRICES.
EVERY CHEMIST SHOULD SEE NEW LIST.
1/- SIZE **3/-** DOZ.

Don't be late in buying Stock; those who make a good show early get the trade.

GRAPE JUICE SALINE.

8 oz. Cheltenhams, Plug Stopper, each in cartoon (6 doz. with buyer's name) ... 8/- doz
6-oz. Cheltenhams, White Glass, with attractive label, bearing no name ... ... 4/6 „
4-oz. Tins, self-opening, with coloured label 2/6 „
2-oz. Tins, lift-off lid, retail 2*d*. ... ... 14/- gr.

This Saline is thoroughly dried; will keep well.

SEIDLITZ POWDERS.

Guaranteed prepared according to the British Pharmacopœia with English Acid and Howard's Soda Tart. Each Powder weighed, good paper, and neatly wrapped.

In Lift-off Lid Boxes ... ... 4/6 doz.

1-gross Boxes, with buyer's name, 52/-.

SPECIAL.—In Embossed Hinged Box, Howard's Pulv. Seidlitz, fancy wrapper ... 4/9 „

1-gross Boxes, 4/6; or with name on wrapper and label, 4/9 doz.

GRAPE JUICE SALINE POWDERS.

Wrapped as Seidlitz Powders ... ... 3/6 doz

1-gross Boxes, 3/- doz.

These bear no name or brand.

EFFERVESCING CITRATE MAGNESIA. *Good Quality.*

6-oz. Dark Blue Flats ... ... 3/- doz.
12-oz. „ „ with Plug Stopper ... 6/6 „
¼-lb. Kalis, actual weight ... . 3/9 „
½-lb. „ „ ... ... 6/6 „
1-lb. „ „ ... ... 10/9 „

Special prices for quantities of 1 gross and upwards.

THE ACME LLOOFAH BATH MAT

Is a real luxury; it is always dry and warm to the feet.
In two sizes, 18/- and 21/- doz.

LLOOFAHS.

Small, 1/-; Good, 3/-; Very Fine, 6/- doz.

CARBOLIC POWDER.

1*d* Packets, half-gross boxes ... ... 6/6 gross.
4*d*. Tins, attractive wrapper .. .. 2/- doz.
6*d*. „ decorated black and gold ... ... 3/6 „
1/- „ „ „ „ ... ... 6/6 „

This bears no name, only Acme Brand.

INSECT POWDER.

1*d*. black and gold, decorated tins ... ... 5/- gross.
3*d*. attractively-labelled tins ... ... 12/- „
6*d*. „ „ „ ... ... 24/- „
1/- „ „ „ ... ... 39/- „

Bears no name, only Acme Brand.

Full List on application. New Accounts must be accompanied by reference or remittance.

HOCKIN, WILSON & CO.

Wholesale Druggists & Druggists' Sundriesmen,

13 to 16 New Inn Yard, Tottenham Court Road, LONDON, W.

JOHN SANGER & SONS

Dealers in Patent Medicines,

DRUGGISTS' SUNDRIES, PERFUMERY, LOZENGES,

MINERAL WATERS, PHOTOGRAPHIC SUNDRIES AND ALL KINDS OF FANCY GOODS.

Catalogue Post Free on Application.

2 WINSLEY STREET, OXFORD STREET, LONDON, W.

TIDMAN'S

FEEDING 1/- BOTTLE

IS STILL THE BEST.

We are now fitting this Feeding Bottle with the

PATENT SELF-CLEANSING TEAT.

Each Bottle is packed in a Handsome Box with Tube and Bottle-brush, Spare Glass Tube, and an extra Self-cleansing Teat.

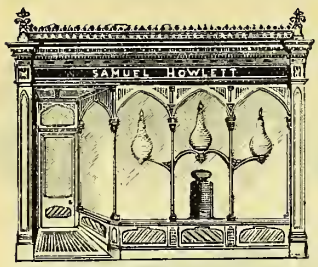
PRICE 6/- DOZEN.

Chemists will find it pays them to Stock these Feeders.

ENGLISH GLASS. ENGLISH RUBBER. ENGLISH LABOUR.

TIDMAN & SON, LIMITED, BUSHELL STREET, LONDON, E.

Telegraphic Address—"BLUEBERRY LONDON." Telephone No. 11,392.



Established 1830.

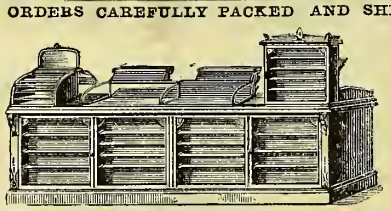
S. HOWLETT,

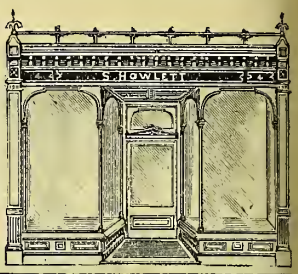
MEDICAL AND

GENERAL SHOP FITTER.

Shop-Front Builder and Show-Case Maker.

EXPORT ORDERS CAREFULLY PACKED AND SHIPPED.





SHOPS FITTED by Contract, in Town or Country, with every requisite, on the most improved principles, and at lowest prices.
NUMEROUS REFERENCES may be obtained of Leading Chemists in all parts of the Kingdom.

A LARGE STOCK of New and Second hand Fittings and Cases to be sold very CHEAP.
CABINET FITTER to the Pharmaceutical Society of Great Britain.
PLANS and ESTIMATES SUPPLIED.

Manufactory and Showrooms—4 Lindley St., Sidney St., Mile End Road, LONDON, E.

BOWLING & GOVIER,

SHOP FITTERS,

GUN STREET, BRUSHFIELD STREET, BISHOPSGATE, LONDON.

NOTICE.—See the Shops recently fitted in our Modern Style, and send for Estimates for Best Work at Lowest Prices.

Burrow's Drug Stores, Westbourne Grove.
Bowden's Drug Stores, Edgware Road.
May's Drug Stores, London Wall.
Bruce's Drug Stores, Ealing.
Goss & Co.'s Drug Stores, Oxford Street.
Mr. Lewis's Drug Stores, Kilburn.
Messrs. Robson & Son's Drug Stores, Scarborough.
Lewes' Drug Stores, 64 Baker Street.
Mr. Bateman, Finchley Road.
Messrs. Thomas Brothers, Cheltenham.
Mr. Chabot, Tunbridge Wells.
Mr. Francis, Carmarthen.
Mr. Pettinger, Hampstead.
Mr. Grose, Swansea.
South Wales Drug Company, Cardiff
Mr. Southon, Leadenhall Street
Allen & Hanburys, 48 Wigmore Street, W.
Messrs. Williams & Co., Cardiff.

"A thing of beauty is a joy for ever." So is a well-fitted Shop.

PHILIP JOSEPHS, 54, 68, and 93 OLD STREET, CITY RD., LONDON, E.C.

Has always in Stock a large assortment of Second-hand and New Drawers, Counters, Dispensing Screens, Glass Wall and Counter Cases, and every requisite for Fitting-up a Shop within 24 hours at prices less than any other house. Inspection invited. *See Coloured Supplement each week under "Miscellaneous."*

CLOSED ON SATURDAYS.

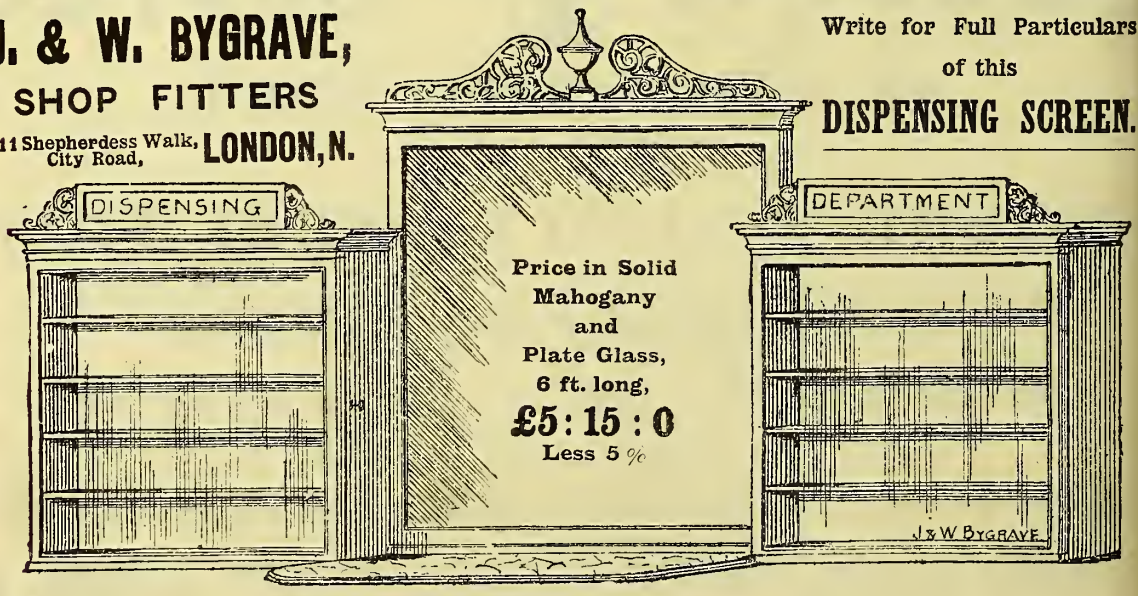
J. & W. BYGRAVE,

SHOP FITTERS

111 Shepherdess Walk, City Road, **LONDON, N.**

Write for Full Particulars of this

DISPENSING SCREEN.



TOILET PAPER

Is now extensively used in most Households, and the sale is increasing enormously, but, unfortunately, the trade seems to be rapidly drifting to Stationers, Drapers, and Fancy shops. In order, if possible, to counteract this, we have worked up a complete series of Toilet Papers of excellent value at moderate prices, the sale of which, moreover, is confined exclusively to Chemists and Druggists.

		Per Doz.
No. 1.	"Household," in packets, 500 sheets	2/8
2.	"Japanese," do. do.	3/9
3.	"Primrose," do. do.	3/9
4.	"Mikado," Crepe Tissue soft, flexible, and soluble	6/6
5.	"Monroe's" Antiseptic, in Cartoons for Hanging ...	4/-
6.	"Monroe's" Hygienic Antiseptic, in Cartoons for hanging	8/-
7.	"Bookshape," extra quality, bound in new style ...	8/-
8.	"Universal, in rolls, perforated...	2/3
	Do. do. do. with holder	3/6
9.	"People's," in rolls...	3/-
	Do. do. with holder...	4/6
10.	"Million," in rolls, perforated, a popular line ...	4/-
	Do. do. do. with holder	6/-
11.	"Perfect," in rolls, super quality, a perfect paper	6/6
	Do. do. do. with holder ...	9/-

Nos. 5 and 6 are Specialities, and the most saleable Toilet Papers in the market, and quantities of not less than 1 gross can be printed with Chemist's own name and address free of charge.

AYRTON & SAUNDERS, LIVERPOOL.

Postal Address: "Ayrton & Saunders Liverpool." *Telephone No.:* 423. *Telegraphic Address:* "Sundries Liverpool."

SPRATT'S PATENT
PET DOG CAKES.

RETAILED IN

7-lb. or 14-lb. Tins or Boxes, or in ¼-cwt., ½-cwt. or cwt. Cases.

ASSIST DENTITION & FORM A VALUABLE DIET FOR PUPPIES AFTER WEANING.

SOLD IN

7-lb. or 14-lb. Tins or Boxes, or ¼-cwt., ½-cwt., or cwt. Cases.

TRADE TERMS OF

SPRATT'S PATENT LIMITED, BERMONDSEY, LONDON, S.E.

OR YOUR WHOLESALE HOUSE.

DAY, SON & HEWITT,

LARGEST MAKERS IN THE WORLD OF

HORSE & CATTLE MEDICINES.

THE CHEMICAL EXTRACT.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

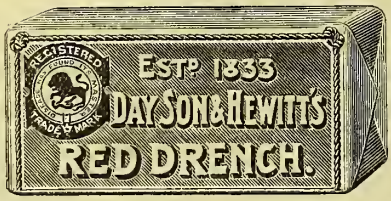
Price 2s. 6d., 3s. 6d., and 7s. per bot.

Prices complete, 18s. and 34s.

PILLS & LOTIONS FOR ALL DOG AILMENTS.

Price 1s. 6d. per bottle or box.

Descriptive Catalogue of each preparation on application.



For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for cleansing and checking Feverish Symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of Milk Fever.

Price (Cows), 13s. per dozen box; (Ewes), 3s 6d. per doz. 3 doz. box, 10s.

Liberal Discounts to Foreign Buyers.

Trade Terms and Full Particulars on application.

Attractive Showcards and Handbills sent with each order.

THE GASEOUS FLUID.

A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhœa in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1s. 9d per bot. 20s. per doz.

FOR HORSES, CATTLE, & SHEEP.

Prices:

£6 6s., £2 16s. 6d., & £1 8s. 9d.

ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.

VELUTINA POLISHING CLOTH.

MADE IN 6 DIFFERENT SIZES.

THE BEST MATERIAL FOR POLISHING PLATE, METALS, FURNITURE, GLASS, or ANYTHING WITH A BRIGHT SURFACE.

There is None Better than the Best.

UNFOUNDED STATEMENTS.

It is rumoured that in some cases buyers of Velutina Polishing Cloth have been told that they are liable to legal proceedings through using or selling the same. The Manufacturers of the Velutina Polishing Cloth will be grateful for any information enabling them to trace the authors of these intimidating statements, as there is absolutely no ground whatever for any such proceedings.

WHO SELL IT? ALL CHEMISTS AND DRUGGISTS.

To be obtained of MESSRS. S. MAW, SON & THOMPSON, Aldersgate Street, E.C.
And of all Wholesale Houses in LONDON, MANCHESTER, GLASGOW, &c.

LONDON AGENTS, FOR WHOLESALE EXCLUSIVELY—

H. PARTINGTON & CO., 42A BOW LANE, E.C.

65

R. HOVENDEN & SONS, BERNERS ST., W., AND CITY ROAD, E.C., LONDON.

REVISED & ENLARGED CATALOGUE

FOR

CONTAINING 432 PAGES **1895** AND NEARLY 1,600 ILLUSTRATIONS.

POST FREE ON RECEIPT OF BUSINESS CARD.

WHOLESALE DEALERS IN AND MANUFACTURERS OF

PERFUMERY, PATENT MEDICINES,

DRUGGISTS' SUNDRIES,

FANCY SOAPS, ESSENTIAL OILS,

TOOTH, NAIL, and HAIR BRUSHES, COMBS, CUTLERY,

TOILET AND SMELLING BOTTLES, SPRAY PRODUCERS, MANICURE GOODS,

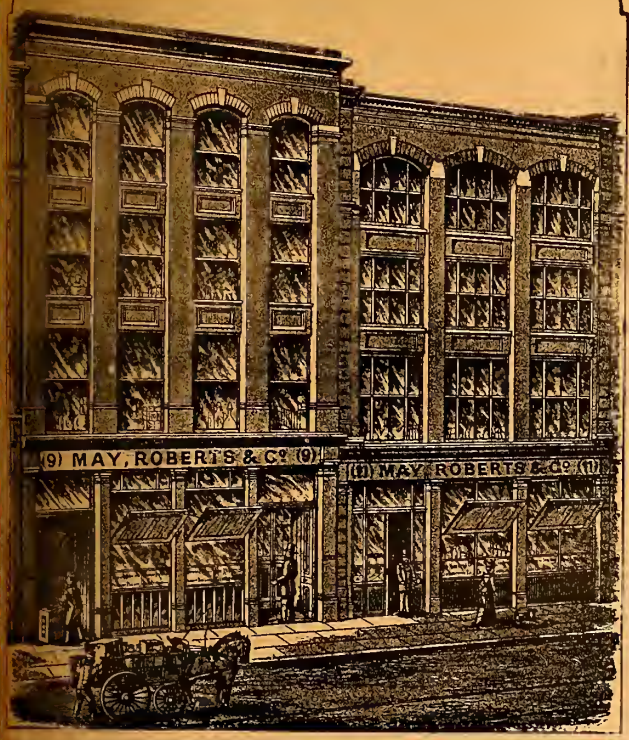
AND ALL ARTICLES DEALT IN BY CHEMISTS, &c.

PROPRIETORS OF—

THE CHERUB FEEDER
THE EASY HAIR CURLER
CLISSADERMOS
BOGLE'S HYPERION FLUID
BOGLE'S MYSTIKOS
CHURCHER'S DENTIFRICE AND MOUTH WASH
CHURCHER'S SPECIFIC
CHURCHER'S TOILET CREAM
COWVAN'S RAZORS, RAZOR STROPS, AND PASTE
LLOYD'S EUXESIS (The Genuine)
THE RAZOR SCISSOR
HOVENDEN'S SHAVING SOAP
MARRIS'S MARKING INK.
SWEET LAVENDER PERFUME
MARRIS'S ALMOND TABLETS AND PREPARATIONS
MIDGET PATENT SAFETY SHAVER
THORNTON'S WALNUT HAIR WASH
HERRING'S MAGNETIC BRUSHES

SOLE WHOLESALE DEPOT FOR—

BATCHELOR'S HAIR DYE
BAINS SAVONNEUX (Wheatsheaf Brand)
BERGEMANN'S SHAVING SOAP
BULLY'S TOILET VINEGAR
CHAPMAN'S TOILET VINEGAR
DORIN'S ROUGES, BLANCS, and all other preparations
FELIX'S EAU DES FEES
IMPERIAL HAIR REGENERATOR
LEICHNER'S GREASE PAINTS, & all other preparations
LOZE'S FILTER PAPER
MARIE ANTOINETTE EGG JULEP POWDER
MECHI'S RAZOR STROPS and Paste
NUDA VERITAS HAIR RESTORER
PICARD FRERES' POUDRE D'AMOUR
PICARD FRERES' VALINEROSE
PINAUD'S PERFUMERY, and all other preparations
PRAY'S (Dr. J. PARKER) MANICURE GOODS
ROBARE'S AUREOLINE
ROBERT FRERES' PERFUMERY
ROYAL WINDSOR HAIR RESTORER
SCHWARZLOSE'S HAIR DYE | SKINHEAL
VOOGD'S RAZORS, SCISSORS, and all other articles



REVISED JANUARY, 1895.

ILLUSTRATED PRICE LIST,

ISSUED HALF-YEARLY.

NO TRAVELLERS!

Their Expenses Given to Buyers.

DRUGGISTS' SUNDRIES.

PACKED DRUGS & PERFUMERY.

PATENT MEDICINES.

SPECIAL QUOTATIONS FOR QUANTITIES.

List sent Post Free on receipt of Business Card.

TERMS ON APPLICATION.

☞ COMPARE THE PRICES. SEND SAMPLE ORDER

FEVRE'S

SELTZOGENES

Caned, each—

2-PINT.	3-PINT.	5-PINT.	8-PINT.
6/9	8/3	12/6	20/3

Wired, each—

2-PINT.	3-PINT.	5-PINT.	8-PINT.
6/6	7/9	11/9	18/9

£5 worth or more, 5 per cent. discount and Carriage Paid.

BRIET'S

GAZOGENES

MAY, ROBERTS & CO have been appointed Special Agents for these well-known Goods, and are prepared to execute orders at the following prices:—

Cane Covered, each—

2-PINT.	3-PINT.	5-PINT.
10/-	11/6	17/6

Spare Upper Globes, each—

2-PINT	3-PINT.	5-PINT.
5/-	6/6	9/3

Spare Lower Globes, each—

2-PINT.	3-PINT.	5-PINT.
4/9	4/9	6/2

Repairs executed at moderate prices. Not responsible for breakage in testing.

SEEGER'S HAIR DYE.

MAY, ROBERTS & CO. *have been appointed Special Agents for the above celebrated single-fluid Hair Dye.*

Retail ...	2/- ...	... Less than 1 dozen ...	14/6
„ ...	2/- ...	... Not less than 1 dozen...	14/-
„ ...	2/- ...	... Not less than 12 dozen	12/11

MAY, ROBERTS & CO., 9 & 11 Clerkenwell Road, LONDON.

Cadbury's Cocoa ABSOLUTELY PU therefore BES

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure."—*The Analyst.*

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOA.

Apollinaris

Hunyadi János

Friedrichshal

NATURAL MINERAL WATERS.

Single Cases Delivered in London, and, at the Same Pric

Carriage Paid, to any Railway Station.

APPLY TO

THE APOLLINARIS COMPANY, LIMITED, 4 Stratford Place, Oxford Street, London,

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*May* 18, 1895.

The Chemist & Druggist SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, MAY 18, 1895

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£1,000.—**LONDON, S.E. (Suburb).**—Dispensing and Retail Business, good-class; position good; situate in a main thoroughfare; returns over £1,000 yearly; *profits good*, larger than usual; good house, with garden and conservatory; rent moderate, held on lease; price £800.

2.—£200.—**LONDON, S.W. (Suburb).**—Nucleus of very good Business, situate in good-class locality; attractive, well-fitted shop; house contains 8 rooms and shop, held at a low rental; price about £150.

3.—£400.—**LONDON, N.W.**—Dispensing and Retail Business, with Prescribing; situate near a central station; returns between £350 and £400 yearly, can be greatly increased by an energetic man; nicely-fitted shop; ample stock; convenient house, with capital position; price £220.

4.—£400.—**LONDON, W. (Death Vacancy).**—Retail and Dispensing Business, practically unopposed; present returns over £400 yearly, under management; small house; very good warehouse room; about £400 required; capital opportunity for small capital.

5.—£700.—**LONDON, S.E.**—Retail and Dispensing Business, situate in a busy thoroughfare; good position; capital situation for a pushing Cash business; returns £700 yearly; can be largely increased by energetic management; price £525; worth attention.

6.—£600.—**LONDON, S.E. (Suburb).** Retail, Prescribing, and Dispensing Business; returns, present rate, £600 yearly, under management; nicely-fitted shop, good stock; rent moderate, held on lease; valuation of stock and fixtures only required.

7.—£350.—**LONDON, E.C.**—Branch Business, situate in a very good position in a busy locality; attractive, well-fitted shop, with good stock; returns, under management, about £350; low rental; good investment for a young man with small capital; about £200 required.

8.—£1,000.—**HAMPSHIRE.**—Unopposed Business; Dispensing and Retail; returns £1,000 yearly; no heavy trade; *profits good*; well-fitted shop; ample stock; commodious house, small garden attached, at moderate rental; about £800 required; worth attention.

9.—£1,300.—**BUCKS.**—Old-established, good-class Business, Mixed trade; the business is situate in a pretty locality; returns £1,300 yearly; *very good profits*; commodious house, good garden, capital business premises; valuation terms can be arranged, say about £1,000; worth attention.

10.—£600.—**SEASIDE** (season just commencing).—First-class Dispensing Business; position good; returns average about £600, can be largely extended; very comfortable house, with garden; about £500 required.

11.—£400.—**HAMPSHIRE.**—Retail, Prescribing, and Dispensing Business; returns £400; the business is well situate in a market town; commodious house, with private entrance; about £250 required, part can remain; full particulars on application.

12.—£900.—**YORKS.**—High-class Pharmacy for Disposal; very old established; commanding position; returns, present rate, between £800 and £900 yearly; *profits good*; single-fronted shop, lock-up Pharmacy; price £550; the business is situate in a main thoroughfare, offering scope for considerable expansion.

13.—**DEVONSHIRE.**—For Disposal, Mixed Business with Wine trade attached; *very profitable*, and offering scope for a business man; returns £1,300 yearly; very good profits; convenient house; very moderate rental; a small premium only required, in all about £900.

14.—£3,000.—**WEST OF ENGLAND.**—Mixed Business for Disposal; returns between £2,500 and £3,000 yearly; gross profit over £1,000 yearly; the business is situate in a main thoroughfare; double-fronted shop, nicely fitted; commodious house with private entrance; terms, small premium and stock and fixtures at a valuation.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

SALES BY AUCTION.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

ON THURSDAY, MAY 23rd, 1895.

WINSFORD.

VALUABLE FREEHOLD SHOP, DWELLING-HOUSE, LAND, AND PREMISES

TO be SOLD by AUCTION, by Mr. C. J. HUGHES, at the RED LION HOTEL, WINSFORD, in the County of Chester, on Thursday, the 23rd day of May, 1895, at 7 for half-past 7 o'clock in the evening, subject to the Public Sale Conditions of the Incorporated Law Society of Liverpool, and to such special conditions as shall then and there be produced and read, and which may be inspected at the office of the Vendor's Solicitor three days prior to the day of sale, all that excellent and valuable Shop, Dwelling-house, Warehouse, Hereditaments, and Premises situate in and numbered 22 and 24 High Street, and also fronting New Road, Winsford, aforesaid, and now in the occupation of Messrs. Frank Clark & Co., Chemists and Druggists and Wine and Spirit Merchants. The shop is a double-fronted one, and is situated in the best business part of Winsford. There is now an off-licence for the sale of Bottled Spirits, Wines, and Beer, and it is believed an excellent business is done.

For further particulars apply to the Auctioneer, Central Offices, Northwich; or to F. Bettley Cooke, Middlewich, Vendor's Solicitor.

TO LET.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

TO Let, Capital corner premises; modern plate-glass front; central position, leading thoroughfare, South Splotlands. Apply, 60 Carlisle Street, Cardiff.

WEST HARTLEPOOL.—First-class Premises to Let, occupying one of the best positions in the town, at 106 Musgrave Street; rent £60; an excellent stand for Chemist and Druggist. Robinson, Auctioneer.

TO Let, House, Shop, and Goodwill; northern town; good position; neglected business; could be made very remunerative; rent low; no stock; has been a Chemist's shop for 50 years. Apply, 49/57, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO Let, corner Chemist and Druggist Shop, 135 Westfield Street, St. Helens, Lancashire; a good opening for enterprising man; the excellent fittings may be rented with premises or bought; rent £25 free of rates. Apply, Westworth & Sons, Lowe Street Printing and Bookbinding Works, St. Helens, Lancashire. Inspection invited.

F. J. BRETT

Valuer, 60 St. Stephen's Road, LEICESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE.
NO CHARGE TO BUYERS.

£1,200 returns.—**MIDLANDS.**—Good General Retail, in pleasant town; good house; price £800 or small goodwill and valuation.

£500 returns.—**MON.**—Prettily situated nice class Retail, capable of considerable increase; price about £400.

Returns £870.—**N.W.**—Cash Retail and Dispensing; double-fronted shop; garden; price £650.

£750 returns.—**LANC.**—Light good medium-class Retail, fair Dispensing; price £600.

£700 returns.—**NORTH.**—Country Retail, with Gilbey's Agency; price £400.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

1.—**SURREY** (Banks of Thames).—Retail and Prescribing Business; returns £500; rent £50; good house, handsome shop; splendid position; unopposed; price £325; personally inspected; worth attention.

2.—**MIDLANDS.**—Retail and Prescribing Business; returns £700; net profit £200; low rent; good house; same hands many years; price £400; can be increased.

3.—**BEDFORDSHIRE.**—Light Retail, Dispensing, and Prescribing Business; returns £600; net profit £200; some hands 2 years; good house; price £525; personally inspected and recommended.

4.—**BOURNEMOUTH** (near).—Retail and Prescribing Business, now much neglected owing to vendor's ill-health; under management; returns, until recently, £500; low rent; price £350.

5.—**CAMBRIDGESHIRE.**—Unopposed Business; returns £7 weekly; rent £18; good house, fine garden; owing to serious illness vendor will accept valuation, about £100; personally inspected.

6.—**GREAT YARMOUTH.**—Branch Business; returns £5 weekly, under management; low rent; shop well fitted and stocked; principal will do £10 week; price £130, or valuation.

7.—**LEEDS.**—Retail and Prescribing Business; returns £6 week, capable of increase; rent £16; good house; capital position; well-stocked shop; price £120, or valuation.

8.—**WILTSHIRE.**—Light Retail and Prescribing Business; same hands 20 years; returns £5 week; low rent; good house; energetic man would double returns; price £125.

9.—**ESSEX.**—Unopposed Business, Retail and Prescribing trade; returns over £400; full prices; excellent profits; rent £32; good house and garden; price £325; personally inspected.

10.—**LONDON, W.**—For immediate sale, at valuation of stock and fixtures, a Retail and Prescribing Business; returns £600; has done £1,000; good house; about £300 required.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

THOMAS TOMLINSON & SON

Chemists' Consultants, Investigators, Transfer Agents, and Valuers,

9 NEW CANNON ST., MANCHESTER,

FORTY-FOUR YEARS' EXPERIENCE.

BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bonâ-fide buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

INTENDING PURCHASERS will do well to call at our offices and place their names with us, with particulars as to requirements and capital at command, as, having an extensive list of Businesses for disposal, we are able to judge as to adaptability, and to furnish those only suitable. Applicants unable to see us may have our candid opinion by post, without any charge.

NO CHARGE TO PURCHASERS
Telegraphic Address—"Tomtom."

JUDD & MANNERS,

(Successors to CROCKER & CO.),

Trade Valuers, Transfer Agents, & Accountants,

76 CANNON ST., LONDON, E.C.

(ADJOINING CANNON STREET STATION).

LONDON (West-end, main thoroughfare).—Good-class Retail and Dispensing Business; returns approach £700; price £450; splendid opportunity for a pushing man.

MIDLANDS.—Good-class Country trade; returns £1,200; price £950 or offer.

LONDON (main road, North).—Retail and Prescribing; returns £300 at full prices; capital chance for a beginner; price £200 or offer.

LONDON (West-end).—High-class Dispensing Business, very old established; returns £1,300, very profitable; price £300 goodwill and valuation; we strongly recommend this as a sound and reliable investment.

VALUATIONS PERSONALLY CONDUCTED.

OUR VALUATIONS AND TRANSFERS

FERGUSON & OSBORNE,
NEXT DOOR TO BOW CHURCH

ARE QUICKLY DONE,

AND WELL.

TRADE VALUERS AND TRANSFER AGENTS.

All VALUATIONS conducted by a member of the firm from start to finish.

LONDON, W.—Retail, Prescribing, and Dispensing Business; good Proprietaries; net profit over £200; price £425.

LONDON (near City).—Smart Business; good premises; rent £700; price £530; suitable for a quick trade.

LEICESTER.—Family and Dispensing Business; capital position; good home; returns £800; price £650.

LINCOLNSHIRE.—Good Country Business, well fitted and stocked; returns £600; superior residence, stable, coach-house, &c; price valuation, probably about £300.

LINCOLNSHIRE.—Light Retail and Dispensing Business; will be in mahogany; net profits £200; price £450 or valuation.

SWANSEA.—Snug little Business, doing £400; price £300.

Birmingham, £650; South Wales, £1,000; Staffordshire, £200; North, £200, £220, £250; Liverpool, £170, £250; South, £500, £300, £1,100, £0; London, N.W., £120, £200.

56 CHEAPSIDE, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

SMALL Business for Disposal, now under management; has been neglected; good opening for pushing man with about £220. G. [illegible], Smith & Co., Blackheath.

GENUINE Retail Chemist's; in same hands 48 years; rent [illegible]; thickly populated neighbourhood; proprietor must retire at once; no reasonable offer refused. 65 Old Street, E.C.

IRELAND.—A good-class Retail, Prescribing, and Compounding Business for immediate Disposal, South of Ireland; returns £600, [illegible] profits; price £400. Address, "Medical," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

AT a Sacrifice.—A bright lock-up Pharmacy, doing £350 [illegible] management; steady and increasing trade; main thoroughfare; rent moderate; a chance seldom met with; stock can be removed. [illegible], 112 Iverson Road, West Hampstead, N.W.

OLD-ESTABLISHED West-end Retail for Sale, through death of proprietor; returns £700; net profit £250; rent £50, on lease; lowest price £500 cash, including stock and fixtures. "Prunel," Willows, Francis & Butler, 101 High Holborn, W.C.

SITUATIONS OPEN—Cont.

WANTED. Assistant (outdoors), about 24; good references essential. Dodd's Drug Stores, 70 Tottenham Court Road, W.

QUALIFIED. energetic Assistant; outdoors; about 25; easy hours; no Sunday duty. Send photo and two recent references, Adams, Chemist, Mansfield.

DRUG Department.—Qualified Assistant wanted. Apply, stating height, age, references, and salary (outdoors) required, to A. M., 15 Regent Street, S.W.

WANTED, at once. 2 qualified Dispensers, 2 smart Countermen, 2 Juniors. Apply, Lewis & Borrows, 2 Bucknall Street, New Oxford Street, W.C.

LABORATORY.—Youth wanted used to the work of a Wholesale Druggist's Laboratory. T., Hodgkinson, Prestous & King, 81 Bishopsgate Street Without.

JUNIOR wanted for about 5 months; seaside; no Sunday duty; must be able to Dispense: send carte and usual details as to salary (indoors), reference &c. C. F. Smart, Littlehampton.

WANTED. a gentlemanly Assistant for good-class Retail and Dispensing business; aged about 23 years. Apply, with full particulars, to Gigner & Co., 131 King's Road, Chelsea, S.W.

WANTED, immediately, a smart, qualified Assistant, about 23; outdoors; one accustomed to high-class Store business and desiring a permanency preferred. Apply, 44 Harrington Road, South Kensington, S.W

WANTED, smart young man (married preferred) to manage a business in Midlands; must be qualified and good Prescriber; one having knowledge of Photographic trade preferred; character must be unimpeachable; liberal salary and commission. Apply, giving fullest particulars, to "Midland," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT, used to Mixed business, to manage newly-opened Branch; references must bear investigation as to sobriety; one seeking a permanency preferred; would suit middle-aged man, active, and not afraid of work; to a suitable man this offers a good opportunity; furnished apartments. Apply by letter, stating salary, &c., to "Drugs," 30 Lucas Road, Kennington Park, S.E.

MANAGER for Mixed Country business; hours short; no duty on Sundays or Bank Holidays; must be good Prescriber and Tooth-extractor: abstainer and one seeking permanency preferred: state fully age, height, qualification, whether married (and if so what family), salary required (outdoors), references, experience. when disengaged, if abstainer, and enclose carte. Griffen, Chemist, Kidderminster.

SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

JUNIOR; 19½; tall; Liverpool or district. F. Dale, c/o Mr. Hinkley, Seacombe.

AS Compounder; outdoors; Minor qualification. T. B., 456 Old Kent Road, S.E.

ASSISTANT; 25; disengaged; good references. Wormald, Lake Terrace, Leeds.

TEMPORARY, Manager or Senior; qualified. "Chemist," 18 Madoc Street, Llandudno.

ASSISTANT; time for study preferred; reliable. Jones, 69 Gloucester Road, N.W.

IMPROVER: aged 17: not afraid of work. "Hubert," o/o Andrews, Chemist, Walthamstow.

JUNIOR: 5 years' experience; disengaged; Photography. T. Dolman, Bath Road, Cheltenham.

LOCUM or Branch Manager; disengaged Monday. "Statim," 12 Wansey Street, Walworth.

TRAVELLER: 27; good references; experienced. M., 93 Stockwell Park Road, Brixton, S.W.

JUNIOR: 21: 5 years' London, 2½ years' country experience. Bateman, Christchurch, Hants.

ASSISTANT (qualified), in good-class business; disengaged. "Chemicus," Narborough, Leicester.

LOCUM or Manager, branch or otherwise; qualified; married. Buck, 109 Stuart Street, Luton, Beds.

AS Junior; unqualified: good stockkeeper. Address, "Dulcis," 73 Blundel Street, York Road, N.

QUALIFIED: 23; good references; 5 ft. 8 in.; outdoors; London preferred. C. Akeroyd, Alnwick.

AS Part-time Assistant in a bracing place, seaside preferred; qualified. Funnell, 3 Pelham Terrace, Lewes.

LOCUM, Branch Manager, or Senior; 28; qualified; experienced; disengaged. A., 8 Vane Street, Hull.

JUNIOR; 4½ years' experience; aged 21; height 5 ft. 9 in.; highest references. "Alpha," Talley, Llandilo.

LOCUM-TENENS; qualified; aged 40; reliable; disengaged 18th inst. Andrews, Chemist, Walthamstow.

AS Manager or Assistant; 31; qualified; personal interview preferred. "Minor," 128 Westminster Bridge Road, S.E.

ASSISTANT; 23; qualified; temporary or permanent. "Rheum," Maison Déplanche, 7 Avenue Wagram, Paris.

MANAGER or Senior; aged 29; tall; Major; exceptional references. George, 20 New Street, Dorset Square, N.W.

QUALIFIED; Locum, or good permanency; £2 2s.; aged 27. Stirling, 111 Ledbury Road, Notting Hill, W.

EXPERIENCED Locum; Hospital Dispensing or otherwise; disengaged. "Chemicus," 313 Ladbroke Grove, W.

JUNIOR or Improver (19½); medium height; good references. "Exam.," 3 Commercial Street, Huddersfield.

PART-TIME; London; small salary; 12 years' experience; good references. S., 18 Alma Street, Merthyr Tydvil.

QUALIFIED; aged 23; disengaged. "Alpha," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ENERGETIC Assistant; 26: disengaged; thoroughly experienced; good references. Hanson, West Banks, Sleaford.

WHOLESALE.—Warehouseman or Countermau; long experience; aged 40. T. A., 17 Plum Street, Seaforth, Lancs.

MANAGER; qualified; long experience; highest references. "Chemicus," 53 Richard Street, Cathays, Cardiff.

HIGH-CLASS Dispensing: aged 23; experienced: good references; abstainer; no stores. I. X. L., 441 Edgware Road, W.

DANISH Chemist, speaks French, German, situation as Assistant; qualified; references. Anton, 62 Doughty Street, W.C.

SENIOR or Manager; qualified; aged 28: first-class experience and reference. "Minor," c/o Mr. Hunt, Chemist, 30 Walbrook.

LOCUM; Branch Manager or Senior (single-handed); qualified; middle-aged; trustworthy. 36 Wrexhamfechan, Wrexham.

JUNIOR or Dispenser; 7½ years' experience; Apothecaries' Hall qualification; excellent references. J. Trubshaw, Uttoxeter, Staffs.

ASSISTANT or Dispenser, qualified, 28, desires outdoor situation; good references and experience. G. H., 129 King's Road, Chelsea.

LOCUM-TENENS, or Manager; good experience and references; qualified; aged 34; height 5 ft. 9 in. L., 4 Albion Terrace, Wisbech.

ASSISTANT seeks outdoor engagement; qualified; 27; excellent references; disengaged. H. S., 12 Great Smith Street, Westminster, S.W.

ASSISTANT; 1st June; London; 25; 5 ft. 10½ in.: qualified; good Dispensing experience. Watson, Clyde Terrace, Spennymoor, Durham.

WHOLESALE Countermau; good experience: wet or dry: home or export; distance immaterial. "Styrax," 204 Devonshire Street, Mile End.

MANAGER, Locum, or Senior; qualified: disengaged; aged 30; experienced; London preferred. Reade, 64 Elspeth Road, Clapham Junction.

LOCUM; unqualified; 5 ft. 6 in.; 23: capable taking sole charge; liberty June 10. Particulars to Wild, 138 Salisbury Road, Wavertree, Liverpool.

MANAGER or Locum-tenens; qualified: good all-round man; excellent references; disengaged. B., 10 Musters Road, West Bridgeford, Notts.

MANAGER; used to Mixed business; married; 35; Minor: abstainer. "Statim," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EMPLOYMENT: Lady, qualified; managed Mixed Country business nine years; household duties not objected to. "Chemist," 25 Old Cavendish Street, London.

DISPENSER, country Surgeon; 47; married; now managing Doctor's Pharmacy; undeniable references; disengaged June. M., 9 Balls Pond Road, Dalston.

SITUATIONS OPEN—Cont.

QUALIFIED Assistant wanted, 23 to 26 (outdoors). P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W.

WANTED, a Junior Assistant for a Mixed Country business. Apply, stating salary and references, to J. J. Harding, Sudbury, Suffolk.

WANTED, an Assistant, about 22 or 23 years old, with Minor qualification. Apply, with full particulars, to Glaisyer & Kemp, Brighton

JUNIOR; indoors; good Counterman and fair Dispenser. State full particulars, carte if convenient, G. L. Douthwaite, Newport, Shropshire.

ASSISTANT wanted in high-class modern business. Send usual particulars, W. Aston, Pharmaceutical Chemist, 21 Montague Street, Worthing.

LABORATORY.—Wanted, a young man used to Laboratory work. Apply, stating wages required, to Potter & Clarke, Artillery Lane, Bishopsgate, E.

WANTED, qualified Chemist; Stores' trade; good Salesman; satisfactory references. State salary, Hull Drug Company, 34 Whitefriargate, Hull.

A QUALIFIED Junior Assistant, for a good-class country business. Apply, stating salary required and the usual particulars, to W. Hibbert & Son, Pharmacists, Neath.

JUNIOR wanted, unqualified; must be a good Dispenser, and used to a quick Cash business; outdoors. Apply personally, Lewis & Burrows (Limited), 274 Seven Sisters Road, N.

WANTED, qualified Assistant; good Salesman and Prescriber. Apply, stating salary required, experience, references, &c., to "Pharmacist," c/o Smith & Sons, Norwich.

H. M. GROSE, Pharmacist, Swansea, is in want of a qualified Assistant as second hand; a knowledge of Welsh desirable. Full particulars, with photo, which will be returned.

FOR the East.—Wanted, at once, qualified Assistant, about 25; healthy climate; knowledge of Oculist's work desirable; good terms. Apply. Dakin Brothers, 87A Leadenhall Street, E.C.

IMMEDIATELY, Junior Assistant, about 22 or 23; qualified; indoors. Apply, with photo, and full particulars, "Junior," c/o Messrs. Meggeson & Co., Miles Lane, Upper Thames Street, E.C.

ASSISTANT; competent; outdoors; a permanency and good salary to a suitable man. Apply, with references and c.d.v., to 255/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST, A.P.S.—Gentleman required to take Management of Department in a General Store. Apply by letter, giving full particulars, experience, &c., to T. L S., 12 Carey Street, Westminster, S.W.

WANTED, Working Chemist, capable of superintending Chemical Apparatus and Steam Machinery in connection. Apply, by letter, to W. C., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, about July, Assistant (qualified), aged about 30, outdoors, to manage, with view to purchase. Apply, F. W., Clay, Dod, Case & Co., St. Ann Street, Liverpool. Applications not answered in three days declined.

UNQUALIFIED Assistant, energetic and capable, wanted for South Coast; must have good references from recent situations. State outdoor salary required, and usual particulars, "Coca," c/o Messrs. Mace & Haldane, Milton Street, E.C.

WANTED, an Improver, about 18 (indoors); or a Junior Assistant to keep the books and assist in shop would be treated with. State age, height, reference, salary required, if Churchman, enclosing photo, to J. Wellington, Chemist, Oakham.

GOODS Receiver, active and intelligent, wanted at once; none need apply whose character will not bear the strictest investigation. Apply, in the first instance, by letter to Parke's Drug Stores (Limited), 4 Princes Street, Oxford Circus, W.

UNQUALIFIED Junior Assistant (indoors), for a quick Ready-money Prescribing business; one hour daily allowed for study or recreation; must be energetic, and a good Salesman. Apply, stating salary, &c., to Mack, Chemist, Penge, London.

SOUTH AFRICA.—Assistant wanted, at once, with Minor qualification; passage paid; 3 years' engagement; salary to commence £140 and commission; aged about 30; unmarried; good address. Walter Kemsley & Co, 44 Leadenhall Street, E.C.

WANTED, at once, an Assistant for Light Retail and Dispensing; half-holiday weekly during summer; apprentice kept. Apply, with full particulars as to age, height, experience, salary required (indoors), and enclose carte, to Major Hill, Wisbech.

AGENT (Wholesale) wanted for Freeman's Perfumes in London and suburbs; commission; good references essential; connection with Chemists; one who has facilities for holding stock and delivering goods preferred; state full particulars. Apply, John Parkes & Co., Priory Works, Warwick.

ASSISTANT (outdoors); 2 kept; not under 23; one accustomed to Country business preferred; hours 8 to 7, fortnightly half-holiday State experience, age, height, salary, and enclose photo (to be returned) J. L. Davies & Son, Chemists, Hay, R.S.O.

WANTED, a qualified Manager for a Light Retail business in Liverpool; must be a good Prescriber; outdoors; single preferred Apply, stating salary, qualification, &c., with photo, to D. T. J., c/o Evans, Sons & Co., Hanover Street, Liverpool.

QUALIFIED Assistant; outdoors; Light business; one used to Photographic and Chemical Apparatus preferred. Apply, stating age, height, salary, and references, with photo (to be returned), to J. W Bodger, Chemist, 18 Cowgate, Peterborough.

MANAGER wanted for Store in South of London, with good-class trade; married; qualified; an energetic and capable man of good appearance liberally dealt with; one with R.D.S., or a good Extractor preferred. Write, "Boz," 159 High Road, Balham.

IMMEDIATELY, a qualified Assistant, accustomed to high-class Dispensing trade; indoors. Apply, personally or by letter, enclosing photo, stating full particulars, age, salary required, &c., to "Manager," West Kensington Drug Stores, Limited, London, W.

QUALIFIED Assistant; active and competent; state age, height salary required (outdoors), periods of most recent engagements, and any other necessary particulars; hours moderate. A. X., c/o Messrs Burgoyne, Burbidges & Co., 16 Coleman Street, E.C.

WHOLESALE.—Wanted, a fully qualified man for a Wholesale Sundries and Drug establishment; a Major man with an analytical experience preferred. State experience, age, and wages, to 252/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, qualified Assistant (Senior); also Junior (qualified) accustomed to Store trade and with knowledge of Photography preferred; state age, height, salary required, and enclose photo, if convenient. Apply, John B. Foggitt, Pharmacist, Southport.

COMPETENT Assistant wanted; not necessarily qualified; state age, height, salary required (outdoors), and give full particulars of recent situations; enclose photo, to be returned; London district. Apply W. C., c/o Baiss Brothers & Co., 4 Jewry Street, London, E.C.

TRAVELLER, with first-class connection in town and country wanted; salary, expenses, and commission. Full particulars (in confidence), stating previous experience and salary required, 255/29 Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR Assistant, for new Branch; good-class Cash trade; outdoors no Sunday duty; must be competent and a good Salesman. State salary required, particulars of last two appointments, and all customary information, to Timothy White Company, Chemists, Portsmouth.

WHOLESALE Assistant required for a Colonial town; must have good all-round knowledge and have served an apprenticeship to the trade. Apply, with particulars as to age, experience, &c., to "Wholesale," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

INVOICE Clerk.—Wanted, a man for abroad; aged about 26; must write a good hand, be acquainted with accounts, and have a knowledge of Drugs, Patents, &c. Apply, by letter, with particulars, to "Invoice," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street E.C.

RELIABLE qualified Assistant, at once; write, stating terms, when disengaged, and references, which must bear strict investigation must be competent to take charge during principal's absence; aged about 25; abstainer preferred; comfortable engagement for suitable man. M. 36 Vanbrugh Park, Blackheath, S.E.

QUALIFIED Assistant (young) wanted immediately; outdoors; must be used to quick Store trade; town close to Birmingham; no Sunday duty; hours 8.30 to 8.30, Saturdays to 11; salary 45s., progressive; enclose photo, and give age, references, and experience. Apply to K. K., c/o Evans, Lescher & Webb, Bartholomew Close.

NO SUNDAY DUTY.—Wanted, at once, competent and trustworthy Assistant (qualified), for Cash business close to City; one accustomed to London trade and Store prices preferred. Apply, by letter enclosing photo, stating age, height, references, and salary required, to N. E., c/o Messrs. Baiss Bros., Jewry Street, E.C.

CAPE TOWN.—Assistant wanted for Wholesale Druggist; must have had good experience; qualified man preferred; a good opportunity for steady and enterprising young man; 3 years' engagement second-class passage paid. Apply, stating full particulars, to R. H., c/o John Murdoch & Co., Sussex House, 52 Leadenhall Street, E C.

OUTDOOR (near Holborn); smart Junior, about 23; quick Retail and Dispensing; good Counterman; gentlemanly habits; must be industrious; excellent references required; good salary to reliable man half-day off fortnightly. State age, height, salary required, enclosing photo. "Business," Hodgkinson & Co., 101 Whitecross Street, E.C.

REQUIRED, immediately, a qualified, businesslike Assistant, not under 25; must be of good appearance and address, accustomed to quick Cash trading, and capable of taking charge; salary £100 per annum (outdoors) and commission. Apply, with full particulars and photo, to "Modern," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR or Improver wanted, on or about July 4th, for Light Retail and Dispensing Business; hours moderate; comfortable home; slight knowledge of photography preferred. Apply, with full particulars, stating salary expected (indoors), with photo (to be returned), and references, to H. Vaughan Horsey, Dispensing Chemist, 55 Lodge Road, Southampton.

BUSINESSES FOR DISPOSAL—Cont.

GENUINE Light Retail, Dispensing, and Prescribing Business, doing £7 weekly under management, can be largely increased; rent £30; price £225. H. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Sale, in a growing manufacturing town, a Light Retail Business, in a good position; returns about £150 yearly, has done £450 to £500; satisfactory reasons for sale; accept £145. Apply, "Ilex," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FORTY miles from London; good residential town; an old-established Light Retail, Dispensing, and Prescribing Business; returns £850; very handsome shop, well stocked; large house; capital opening for good Dentist. 258/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ACCRINGTON, Lancashire.—For immediate Disposal, in consequence of the death of Mr. Edward Astin, the Business of Chemist and Druggist carried on by him for the last 31 years; a splendid situation in one of the main thoroughfares of the town. Apply, Mrs. Astin, 40 Beech Street, Accrington.

£350 Cash.—Good Retail Business, W. district; lock-up shop with parlour; suit good Prescriber, or as Surgeon's Retail; returns between £400 and £500, can be very much increased; good profits; few patents. "Maranta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£480.—£200 can remain; a good-class Light Retail and Dispensing Business, occupying a fine position in fashionable town on coast of Hampshire; returns £600; net profit £200; handsome fittings; good stock. 79/1, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Sale, a good Prescribing and Retail Business in South Wales; splendidly fitted and well stocked; very few patents, and good prices obtained; proprietor giving up on account of ill-health, and is prepared to sell at a fair price. Address, 253/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AN old-established Business, doing over £1,000 a year, and making over £400 net profits; part purchase money could remain for 12 months, working and sharing mutually for that time, and giving purchaser every opportunity of establishing himself; profits very reliable. J. A., 7 Hinckley Road, East Dulwich.

DISPENSING and Prescribing, with Light Retail, Business; opened 1893; new fittings, all serviceable stock; good suburban neighbourhood, rapidly increasing; no immediate opposition; capital house; satisfactory reason for disposal; suit beginner. "Nucleus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LEICESTER.—Near centre of town; death vacancy; Chemist's and Photographic Business, with Dispensing and large practice in Tooth-extracting, which has been successfully carried on for the last 40 years; average returns under manager about £800, could be greatly increased by principal. Apply, B. R., 21 Lincoln Street, Leicester.

£250.—Birmingham.—Genuine ready-money Business for Disposal; established 40 years; capital position in busy thoroughfare; returns £450, increasing; good house, low rent; splendid opening for Dentistry to capable and energetic man; proofs given; illness sole cause of leaving. 163 Bloomsbury Street, Birmingham.

HIGH-CLASS Retail and Dispensing, at good prices; small amount of Photography, which could be greatly increased; shop neatly fitted in mahogany, and heavily stocked; returns nearly £700, increasing annually; good house; 23 years' lease on advantageous terms. 256/9, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SOUTHSEA.—Genuine well-situated Retail and Prescribing Business, returning £300; owner having purchased another business, must sell quickly, and will take highest cash offer or payment by instalments; or Assistant with view to purchase would be entertained. Apply at once, "Radix," c/o Mrs. Ford, 65 Ernest Road, Buckland, Portsmouth.

£850.—LONDON, S.E.—Main road; improving neighbourhood; returns £1,050; Light Retail with good Specialities; this is a good opportunity for anyone wishing to buy a genuine business, as proprietor can give ample reasons for leaving. Apply, H. S., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A NON-ADVERTISING Dentist in small practice, with good Family Retail and Dispensing Business, West, will sell the Retail, or both; good house, long lease; pleasantly situated in a populous and respectable neighbourhood; present hands 18 years. For particulars apply, 251/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SOUTHSEA.—Old-established good Prescribing and General Drug trade, all ready-money; very busy commercial part; Doctor would like to arrange with incomer to see patients, have medicine dispensed here; proprietor otherwise engaged; moderate price (about £600): house small, very comfortable. Letters only, "Rhei," A. Gibbs, Esq., 4 Queen's Terrace, Southsea.

TO be Sold, at valuation, an old established Country Business in Norfolk; commodious and convenient premises, with garden and stabling; low rent: good-class Family and Agricultural trade, returning about £750, with good profits: the present proprietor has had the business over 50 years, and the sole reason for selling is failing health and advanced years. For full particulars, apply to Smith & Sons, Wholesale Druggists, Norwich.

CHEMIST'S Light Retail Business, with Gilbey's Wines and Spirits, for immediate Disposal; shop pleasantly situated in most rapidly increasing suburb; established over 6 years; returns average about £900; splendid position for qualified Chemist, who would rapidly increase returns; vendor not registered; rent £28; incoming £600. "Chemicus," 108 Roundhay Road, Leeds.

BURTON-ON-TRENT.—Old-established Chemist's Business, in centre of town, for immediate disposal; Fixtures and Stock, Light Retail and Counter Prescribing; shop, good house attached; nearly 40 years in present hands; leaving through death and declining health; first-class opportunity for a young, energetic gentleman. Apply on the premises, 164 Station Street.

CHEMIST and Druggist's Business for Disposal in thriving seaport town in North of Scotland; the business is well established, turning over between £1,500 and £1,600, principally Retail, Dispensing, Prescribing, with Tobacco and Stationery, and is a very profitable one; such an opportunity for acquiring a really good-paying concern seldom occurs, and it will be sold if a reasonable offer is made. Apply to Raimes, Clark & Co., Edinburgh; Evans, Sons & Co., Liverpool; or Paterson & Sons, Aberdeen.

BUSINESSES WANTED.

BUSINESS wanted, showing net profit of £300 or £400 per annum; must bear strictest investigation. Full particulars, "Gentian," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£20 BONUS.—Wanted, opening for Practice, or, short of an opening, information, in confidence, of a place where room for a first-class man; market town or village not too far from London preferred, but anywhere would do; highest references. Address, Dr. Clarke, 3 Dover Terrace, Southsea.

FOR SALE.

FOR SALE.—20 Ordinary Shares, Barclay & Sons (Limited); £3 paid; offers for cash. "Apex," 109 Albert Road, South Norwood.

FOR Sale, Barnett & Foster's Soda-water Machine, No. 2 size; equal to new; price £15. Apply to R. H., 1 Southwick Street, W.

FOR sale, 4 8-gallon pear-shaped carboys, cut stoppers, mahogany stands, splendid condition, cheap. Payne, 251 Upper Street, N.

FOR immediate Disposal, complete Fittings of a Chemist's Shop, consisting of Counters, Cases, Drawers, Shop-rounds, &c., with or without stock, in Lancashire. X. Y. Z., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARTNERSHIPS.

PARTNERSHIP.—A Vacancy occurs for a gentleman with £1,000 at command in a brisk Cash business, returning nearly £2,000, increasing, and capable of great extension; marketing thoroughfare; very profitable trade; references must be sent or will not be noticed. "Aurantii," Horncastle's, 61 Cheapside, London, E.C.

WANTED, by young man who has had 12 years' active experience with Medical men, from whom he holds excellent testimonials, Partnership in Chemist's Business; or is open to purchase small Business; or would join qualified Chemist in formation of new Business; or would Travel for a firm. Address, "Audax," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

APPRENTICESHIPS.

APPRENTICE (outdoors).—Dentistry.—A qualified Dental Surgeon has a vacancy in his laboratory for a respectable youth; every branch of mechanical Dentistry theoretically and practically taught; personal supervision; premium according to time served. Address, L. D. S., 181 Edgware Road, London, W.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

ASSISTANT; aged 23; good experience and address. H., 19 High Street, Kingston-on-Thames.

SMART Junior; must be a good Salesman and systematic worker. S., 17 Maury Road, Stoke Newington.

WANTED, Junior or Improver; sleep out. Apply, Horry, Chemist, Boston. A vacancy for an Apprentice (indoors).

QUALIFIED Assistant required, not under 24. Full particulars to Woodward, Pharmaceutical Chemist, Reigate.

JUNIOR, in good Country business; comfortable home; short hours. Send photo, with terms, to H. Downing, Launceston.

WANTED, qualified man as First hand. Apply (enclosing photo), "Chemicus," Yarra-Yarra, Grove Park, Camberwell, S.E.

SITUATIONS WANTED—Cont.

DRUG-STORE Manager; thoroughly competent; good Prescriber and Extractor; first-class references; married. Address, 185 Burnley Road, Accrington.

DISPENSER; qualified; 25; tall; abstainer; Hospital or Surgeon's; thoroughly experienced; excellent references. Dodd, Mount Pleasant Road, Dartford, Kent.

QUALIFIED; 23; Locum-tenens or part-time for about 6 weeks, commencing about July 1; Sheffield district preferred. "Chemicus," 22 Havelock Square, Sheffield.

ADVERTISER wants Agency and Representation for Midlands, for good house; qualified; good experience and references. "Nemo," 269 Moseley Road, Birmingham.

QUALIFIED Assistant; 25; outdoors; accustomed to Store trade; Hastings or South Coast preferred. 250/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Assistant; aged 30; married; good Prescriber and Tooth-extractor; excellent references. Address, "Chemicus," Zoar Cottage, Grosvenor Road, Bristol.

LOCUM-TENENS or otherwise; now disengaged; qualified; town and country experience; aged 26; total abstainer; excellent references. B., 68 Mile End Road, London.

TRAVELLER in Sundries, West of England, South Wales, open to take commission in Drugs or Chemicals. E. P., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER to Country Wholesale, or Manager: accustomed to driving: exceptional references; married. 240/8, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER. 18 years' experience, London and Home Counties, open to add commission: part salary or expenses. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; 24; time for study; 9 years' experience; 5 ft. 9 in.; abstainer; last situation (London) 2 years; outdoors preferred. Jenner, 42 Hartismere Road, Walham Green, S.W.

AN experienced Agent in Paris wishes to represent British Drug or Pharmaceutical firms; best references. Address 49/60, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR; aged 20; height 5 ft. 8½ in.; high-class Retail and Dispensing business; Birmingham or district preferred; good reference. Henry H. Marshall, Balsall Heath Road, Birmingham.

TRAVELLER (Drugs): good connection West of England, North, and Midlands: highest references; London House preferred. 225/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, immediately, situation as Improver, by a Chemist's son; aged 18; 2 years' experience in Mixed Country business. "Suffolk," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ENERGETIC Assistant, with 15 years' good all-round experience, desires engagement, outdoors, with view to Partnership or succession preferred; aged 30. D., 4 Pembroke Street, St. Clement's, Oxford.

WANTED, part-time situation, in or near Manchester; 26; 5 ft. 9 in.; first-class references; over 4 years present situation; personal interview arranged if desired. Address, P. T., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

COMPETENT qualified Assistant seeks re-engagement as Senior; capable of taking sole charge; aged 30; good-class in London or neighbourhood preferred, though not essential; good references; disengaged. "Druggist," 4 The Broadway, East Ham, E.

END OF JUNE.—Manager; Prescribing and Extracting business; chance of succession preferred; small capital; very best all-round experience; 25; married; total abstainer. "Personality," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT (unqualified), with good experience; active counterman, pushing salesman, good Prescriber, experienced in agricultural preparations, and accustomed to putting up proprietary stock; moderate salary. Denham, Caledonia House, Hay, Breconshire.

TO Wholesale Druggists, England.—Advertiser seeks employment as Porter or handy man; would be very useful; has a good knowledge of Drugs; steady, honest, and obliging; security if required. 255/9, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A GERMAN University Student, who has a thorough knowledge of Chemistry, is desirous to learn the business of Druggist in an English house; he is willing, if required, to sign articles as a kind of Apprentice for 2 years; he should like to reside in the establishment if possible. A. L., Keble Villa, Acton Green, W.

IMPROVER.—Danish Pharmaceutical Chemist desires situation in a large Dispensing Business; London preferred; speaks English; can Dispense well; 6 months with Mr. Johnston, Ph. Chemist, 69 Loughborough Road, S.W.; salary to commence 10s. per week, outdoors, or equivalent. P. Bottern, 17 Effra Road, Brixton, S.W.

LOCUM-TENENS; 38; abstainer; disengaged. "Minor," 40 Palace Street, S.W.

EXPERIENCED Junior; 21; disengaged; good London references Fisher, 56 Waterford Road, S.W.

ASSISTANT; qualified; accustomed to good-class Dispensing, Locum or otherwise. S. J. M., 2 Henway Street, W.

LOCUM-TENENS or Temporary Assistant; qualified; disengaged C. M., 149 Junction Road, Upper Holloway, N.

LOCUM-TENENS; qualified; long experience; highest references; disengaged. "Chemist," 8 Church Street, Salisbury.

MANAGER; qualified; well up Retail; registered Dentist; well up in Dental Surgery; disengaged. 113 Stoke Newington Road.

JUNIOR wanting situation, to help in the Wholesale Laboratory Manchester or Liverpool preferred. Heworth, Samuel Street, Leeds.

BRANCH Manager; 25; married; unqualified; London; excellent experience. "Kola," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; qualified; good Salesman, Dispenser, Prescriber, and Extractor; wide experience; disengaged. 253/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT or Manager; married; aged 33; height 5 ft. 7 in.; 16 years' thorough experience in first-class businesses; steady, sober, trustworthy: Photography, Dentistry. "Manager," 8 Albion Parade, Albion Road, Clissold Park, N.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

TEN Shares in Barclay & Sons (Limited) for sale; no reasonable offer refused; cash wanted. "Shareholder," Marshfield, Chippenham.

LONDON City Firm, with good Showrooms, are open to take Agencies for Patent or Proprietary Articles, Inventions, Chemical or Special Preparations, Smart Novelties, Small Machinery, or any class of goods bought by Chemists; correspondence invited. "Iodide," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST'S 12 ft. range of 60 mahogany-fronted drawers, glass labels, glass knobs, well-finished, £7 5s.; mahogany 6 ft. beot plate-glass counter-case, fitted mirror backs, velvet-lined trays and display shelves, 92s. 6d.; 2 ft. upright case, plate-glass door, mirror back and mahogany desk at back, 45s.; 6 ft. mahogany dispensing-screen mirror centre, showcase each side, with writer's tablets, marble slab, £5 17s. 6d.; bargain, shop fitted cheap. Mills, Shop Fitters, Show Case Manufacturers, 203 City Road, London, E.C.

CHEMIST'S Shop Fittings.—The entire fittings, comprising 21 ft. run of mahogany fronted drawers, with glass labels and glass knobs, shelving and cornice over; 11 ft. mahogany-top counter; 6 ft. counter, with dispensing-screen on same; 6 ft. plate-glass wall-case; 250 gold-labelled shop-rounds; plate-glass counter-case, desk, shop-dial, window-enclosure, ointment-jars and extract-pots, 2 mirror-fronted poison-cupboards, &c.; for a quick sale, 50 guineas the lot, cost £250. Philip Josephs, 54 Old Street, City Road, London, E.C.

CHEMISTS' Shop Fixtures; large variety, new and second-hand, including handsome mahogany wall-case, glass doors (top and bottom), moveable shelves, and lift-up circular flaps to centre; ranges of mahogany drawers with bevelled-glass labels and knobs, shelving above, lockers below; plate-glass and mahogany dispensing-screens, counters, flat and bent-front counter-cases, counter-desks, whole fittings for high-class Chemists' shops; estimates free. Matthews, 14 Manchester Street, Liverpool.

PRELIMINARY AND MINOR.

STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

TO EMPLOYERS, COMPANY CREDITORS, &c.

THE LAW GUARANTEE AND TRUST SOCIETY, LIMITED

GUARANTEES FIDELITY.

Send for complete Prospectus, containing Balance Sheet, Copy of Policy, &c

Head Office: 49 CHANCERY LANE, LONDON, W.C.

J. GINSBERG,

Importer and Agent for B. TABINOS' (of Paris) LATEST NOVELTIES IN RUBBER GOODS.

Wholesale at Paris prices only. Samples and Price-list sent post free

17 PROVIDENCE PLACE, MIDDLESEX STREET, ALDGATE, LONDON, E.C.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*May* 18, 1895.